



Toyo Ink SC Holdings, Co., Ltd. (4634)

TOYOIN(SC

Satoru Takashima President

Company Information

Market	TSE Prime Market			
Industry	Chemical (Manufacturing)			
President	Satoru Takashima			
HQ Address	2-2-1 Kyobashi, Chuo-ku, Tokyo Kyobashi Edogrand			
Year-end	End of December			
Homepage	https://schd.toyoinkgroup.com/en/index.html			

Stock Information

Share Price	Shares Outs	standing	Total Market Cap	ROE Act.	Trading Unit
¥1,999	58,286,544shares		¥116,514million	4.3%	100shares
DPS Est.	Dividend Yield Est. EPS Est.		PER Est.	BPS Act.	PBR Act.
¥90.00	4.5%	¥113.23	17.7x	¥4,133.90	0.5x

^{*} Share price as of closing on March 10. Each figure is based on the financial results for the fiscal year ended December 2022.

Earnings Trend

Fiscal Year	Sales	Operating Income	Ordinary Income	Net Income	EPS	DPS
December 2019 (Act.)	279,892	13,174	13,847	8,509	145.72	90.00
December 2020 (Act.)	257,675	12,909	12,543	6,019	103.06	90.00
December 2021 (Act.)	287,989	13,005	15,442	9,492	169.36	90.00
December 2022 (Act.)	315,927	6,865	7,906	9,308	171.49	90.00
December 2023(Est.)	330,000	11,000	9,500	6,000	113.23	90.00

^{*}Unit: million yen, yen. Estimates are those of the Company. Net income is net income attributable to the shareholders of the parent company. Hereinafter the same shall apply.

This Bridge Report provides Toyo Ink SC Holdings, Co., Ltd.'s earnings results for the Fiscal Year ended December 2022, and more.



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Key Points

- In the term ended Dec. 2022, sales increased 9.7% year on year to 315.9 billion yen. Sales grew in major segments owing to the positive impact of foreign currency exchange rates and effects of price revision. The sales of packaging-related materials, such as liquid inks, pressure-sensitive adhesives and adhesives, grew especially overseas. Operating income decreased 47.2% year on year to 6.8 billion yen. Despite the expansion of sales (+800 million yen) and price revision (+19.9 billion yen), profit declined due to the rise in prices of raw materials (-21.1 billion yen), skyrocketing of energy costs (-1.8 billion yen), augmentation of expenses and logistics costs stemming from the increase in sales volume (-1.6 billion yen), decrease in quantity due to deterioration of market conditions (-3.3 billion yen), etc. It was impacted by the rapid decline of the market for LCD panels and electronics. Although price revisions contributed 25.2 billion yen during the two years of 2021 and 2022, it was not enough to offset the augmentation of costs caused by rising raw material prices of 33.3 billion yen. Net income stood at 9.3 billion yen, down 1.9% year on year. In step with the dissolution of the capital alliance with SAKATA INX, the company sold its shares and posted a gain on sales of investment securities of 5.6 billion yen.
- In the term ending Dec. 2023, sales are forecast to grow 4.5% year on year to 330 billion yen and operating income to increase 60.2% year on year to 11 billion yen. Although a recovery of the economy is expected while coexisting with the coronavirus, the impact of the downturn of overseas economies and increasing prices in Japan are projected amid continuous global monetary tightening. The company assumes that the severe business environment will persist due to prices of raw materials and energies remaining high, economic stagnation, etc., However, they will strive to improve operating income based on the recovery of market conditions, expansion of overseas business, cost reduction and price revision. Decline of sales and growth of profit are projected in the Printing & Information Related Business segment, while both sales and profit are expected to increase in other segments. The company plans to pay a dividend of 90.00 yen/share, like in the previous term. The estimated payout ratio is 79.5%.
- In the term ending Dec. 2023, which is the last term of the Mid-Term Management Plan "SIC-II," sales are projected to exceed the figures set at the beginning of the mid-term management plan period in all segments. It can be said that the company effectively utilized their technological capabilities and steadily met new demand while boosting their production capacity for materials related to lithium-ion batteries and environmentally friendly products.
- On the other hand, it appears that operating income will reach about a half of the initial forecast, due to the rise in prices of raw materials and energy. While there is little what a single enterprise can do to address such significant changes in the external environment, it is necessary to keep creating products with higher profitability and highcost competitiveness, and endeavor to proceed with a structural reform as a step to increase P/B Ratio, which is below 1.0. We would like to pay attention to how much they can increase sales and profit in the term ending Dec. 2023, to drive their next mid-term management plan.



1. Company Overview

Toyo Ink SC Holdings is Japan's top manufacturer of printing inks. Using the processing technologies of pigments and polymers that are the raw materials of inks, the Company manufactures various products such as LCD color filter materials and electromagnetic shielding films. The Toyo Ink Group is comprised of Toyo Ink SC Holdings, 61 consolidated subsidiaries in and outside Japan, and 7 equity method affiliate companies. They are operating business in 24 countries around the world (The end of December 2022).

Under the long-term scheme "Scientific Innovation Chain 2027 (SIC 27)," whose concept is to contribute to the improvement of sustainability of ordinary citizens, life, and the global environment by innovatively thinking, scientifically executing, and connecting each activity by each and every employee, it is aiming for a transformation to have a corporate structure that enables sustainable growth towards 2027.

1-1 Corporate History

The origin of Toyo Ink dates back to 1896, when founder Kamataro Kobayashi opened *Kobayashi's Ink Shop* as sole proprietorship in Nihonbashi, Tokyo. In 1907, it was reorganized and renamed as *Toyo Ink Manufacturing Co., Ltd.* During the Meiji period, many newspapers and magazines, including the Yomiuri Shimbun (founded in 1874) and the Asahi Shimbun (founded in 1879), were launched. The government also printed an increasing number of materials including textbooks to enhance educational levels under the policy of increasing wealth and military power. Under these circumstances, the demand for printing inks expanded rapidly.

Initially, inks in the Japanese market were mostly imported products; however, as the national policy favored high quality domestically produced inks, the Company, with its advanced technological skills, successfully expanded its business with clients such as the Printing Bureau of the Ministry of Finance and other government bodies, in addition to private printing companies. Exports also grew during the same time. The Company's rapid growth was also due in part to the early introduction of integrated manufacturing system from raw materials (pigments, polymers) to finished products (printing inks). Another contributing factor may be that the Company, since its inception, had strong ties with Toppan Printing Co., Ltd., which, by then, was among Japan's largest printing companies. The Company survived the difficult times of the Great Kanto Earthquake and the World War II and experienced rapid growth again during the period of high economic growth after the war. The Company was listed on the Second Section of the Tokyo Stock Exchange in 1961 and moved to the First Section of the Tokyo Stock Exchange in 1967.

The Company is expanding its businesses from manufacturing of printing inks to other fields such as LCD color filters, using its wide range of technologies and know-how cultivated through manufacturing and processing of raw materials such as pigments and polymers. In 2011, the Company adopted a holding company system for further expansion and growth of the Group, and changed its name to Toyo Ink SC Holdings, Co., Ltd.

In April 2022, the company got listed on the Prime Market of TSE after the market restructuring.

1-2 Management Philosophy etc.

"The Toyo Ink Group's Corporate Philosophy System" was established in April 1993. It consists of three parts, namely, corporate philosophy, corporate policies, and guiding principles. The Philosophy embodies the original roots of the brand of the corporate group and serves as guidelines that each employee of the Group should always keep in mind and act on as a business professional. In April 2014, "improving shareholder satisfaction" was added to its guiding principles. With this revision, the Company is aiming to improve satisfaction of all stakeholders.

<Toyo Ink Management Philosophy>

Management	People-oriented management
philosophy	
Corporate	We, the Toyo Ink Group, endeavor to be a company that contributes to the
policies	enrichment of life and culture throughout the world.
	*Contribute to the affluence and culture of people worldwide.
	*Create lifestyle value for the new age.
	*Provide advanced technology and quality products and services.



Guiding principles

- *Provide knowledge that enhances customer trust and satisfaction.
- *Respect the materialization of all employees' dreams.
- *Act as a responsible citizen in harmony with society and the environment
- *Respect shareholders' rights, improve shareholder value and enhance market valuation.

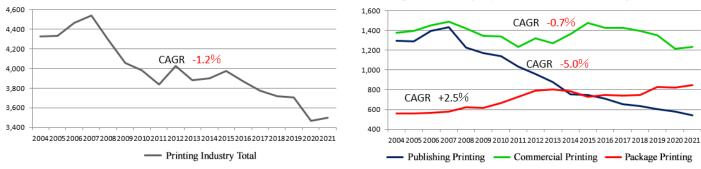
1-3 Market Environment

Overview

(Market trend)

The production value of the Japanese printing industry is declining especially in the realm of publication printing of newspapers and magazines as a result of increasing digitization and aliteracy. Specifically, it fell sharply in 2020 due to the impact of the novel coronavirus etc. Also,in the realm of commercial printing, demands for posters, catalogues, fliers, POP, etc. were sluggish. On the other hands, printing on food and pharmaceutical packages and plastic containers is steadily increasing at the compound annual growth rate (CAGR) of 2.5% for 17 years from 2004 to 2021.

Transition of Production Value in the Printing Industry (Unit:100 million yen)



* Created by Investment Bridge based on Ministry of Economy, Trade and Industry, "Yearbook of Current Production Statistics - Paper, Printing, Plastics Products and Rubber Products Statistics"

* CAGR(Compound Annual Growth Rate)

Meanwhile, overseas, especially in newly emerging countries, both printing on papers (offset printing) and printing on film of food packages (gravure printing, flexographic printing) are expected to grow, and the Company is focusing on responding to the demand. As innovation of printing machine is progressing, quality of printing is enhancing. Overseas local inks, in many cases, cannot respond to such demand for high quality, which may lead to more demand of excellent Japanese ink.

Also, with the growing global awareness of the environment, the needs for environmentally friendly products such as biomass inks are expanding, and ink companies are working on the development of new products that utilize their unique technologies.

Other companies in the industry

There are six major listed companies including Toyo Ink in the ink industry in Japan.

While (4631) DIC is the number one company in the world, (4634) Toyo Ink SC Holdings, Co., Ltd. is the top runner in Japanese printing ink industry, and ranks first or second in most product categories. Globally, the Company is ranked fifth.

		Sales	Sales growth rate	Operating income	Profit growth rate	Operating margin	Total market value	PER	PBR	ROE
4116	Dainichiseika Color & Chemicals Mfg. Co., Ltd.	121,000	-0.8%	2,400	-67.8%	2.0%	34,341	11.0	0.3	5.9
4631	DIC	1,150,000	+9.1%	43,000	+8.4%	3.7%	232,087	11.5	0.6	4.8
4633	SAKATA INX	222,000	+3.0%	6,000	+45.4%	2.7%	55,905	11.0	0.6	5.3



4634	Toyo Ink SCHD	330,000	+4.5%	11,000	+60.2%	3.3%	116,514	17.7	0.5	4.3
4635	Tokyo Printing Ink	42,840	+3.5%	300	-55.6%	0.7%	8,122	-	0.3	2.9
4033	Mfg. Co., Ltd.									
4636	T&K TOKA	43,800	-1.5%	520	+128.1%	1.2%	26,630	22.2	0.6	5.8

^{*}Sales and operating income are based on forecasts of each company for this FY. ROE and PBR are based on actual results of the previous term end.

1-4 Business Description

O Concerning "printing inks"

Followings are the summary of printing inks, one of the major product categories of the Company, categorized by "raw materials" and "types and purposes of use."

<Composing elements of printing inks>

Pigments (organic pigments,	Pigments are powders that are used to provide color and are insolvent to water and oil.
inorganic pigments, etc.)	
Varnish (synthetic polymers,	Varnish is a combination of lipids, natural polymers, synthetic polymers, etc. in a solvent. It diffuses
lipids, fluxing materials, etc.)	pigments, transfers and fixes them to printing materials.
Additives (lubricant, hardening	Additives used to adjust so-called printability such as drying performance and fluidity, as well as
agent, etc.)	printing effect.

High-level dispersion technologies are required when various inks are produced by combining the above three raw materials. Since its foundation, the Company has also been expanding its business categories by exploring application of these raw materials in the process of manufacturing them.

<Types and intended use of major printing inks>

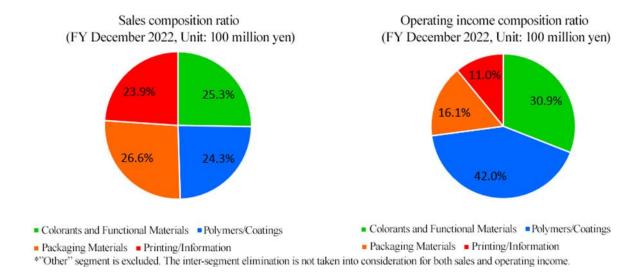
Types	Characteristics and Intended Use
Planographic inks	Typical printing ink on paper. They are used for printing magazines, posters, fliers, etc.
Gravure inks	Because of their capacity to express detailed gradation, it is suitable for printing photo images. Currently, they
	are mainly used for printing films such as food wrapping materials.
Screen inks	They are mainly used for printing on materials that are difficult to be printed with other methods, including
	electronics fields such as meters and gauges of cars, circuit board formation, and CDs/DVDs.
Flexographic inks	They are used to print on the surface of cardboard boxes, films and clothes.
UV curing inks	Because they dry instantly without using a heat drier in the drying process, they are used for UV curing printing
	that does not directly generate CO ₂ . They are environmentally friendly inks that do not generate Volatile Organic
	Compounds (VOC).

Business segments

The business activities of the Company are classified into four segments: the "Colorants & Functional Materials Related Business," "Polymers & Coatings Related Business," "Printing & Information Related Business", and "Packaging Materials Related Business". The "Printing & Information Related Business" mainly deals with planographic inks that are used for printing on papers (offset inks, etc.). The "Packaging Materials Related Business" deals with gravure inks and flexographic inks that are used for printing on films of food packages. The "Colorants & Functional Materials Related Business" deals with products related to pigments that are also the raw materials of printing inks as core materials. The "Polymers & Coatings Related Business" began with polymers that are the main raw materials of inks and their design technologies.

^{*}Unit: million yen, times. Total market value is as of closing on March 10, 2023.





☆Colorants and Functional Materials Related Business

	FY Dec.22
Sales	79,380
Operating Income	1,846
Operating Margin	2.3%

^{*}Unit: million yen

Sub segment	Major products			
General-purpose chemicals	Pigments and pigment dispersions			
High-performance chemical products	High performance pigments, CF (color filter) paste			
Display materials	Resist inks for LCD color filter			
Plastic colorants	Plastic colorants, functional plastic colorants			
Other Colorants/Functional Materials	Recording material coatings, functional dispersions, inkjet inks, developed products			





Based on the organic pigments that are the main raw materials for printing inks, and by integrating their color material technologies, organic chemical synthetic technologies and high-level dispersion technologies, the Company offers materials that are used in various fields. Especially, it created higher functional LCD color filter materials using their nano-level dispersion technologies through integration of technologies that have been accumulated from their ink and painting materials production experiences.

Furthermore, the Company's dispersion processing technologies are used not only for organic pigments but also for inorganic materials such as carbon nanotube (CNT), which leads to expansion of its business in the new energy field such as secondary battery materials.

☆Polymers & Coatings Related Business

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FY Dec.22			
Sales	76,240		
Operating Income	2,504		
Operating Margin	3.3%		

^{*}Unit: million yen



Sub segment	Major products
Functional films and tapes	Adhesive tapes, marking films, electromagnetic shielding films
Adhesives	Pressure sensitive adhesives, Adhesives, laminating adhesives, hot-melts
Can coatings and polymers	Can coatings, polymers, functional hard coatings
Other Polymers/Coatings	Medical products, natural extracts, developed products





For this segment, the Company develops functional polymers as the core materials with different functional features. Using unique technologies that have been developed for many years, the Company creates new functions to cultivate new demand and open new markets in electronics, energy, health care and other fields.

☆Packaging Materials Related Business

	FY Dec.22
Sales	83,464
Operating Income	963
Operating Margin	1.2%

^{*}Unit: million yen

Sub segment	Major products
Liquid inks	Gravure inks, flexographic inks, gravure solvent
Gravure equipment, plate making	Gravure equipment/plate making, gravure and flexographic platemaking





For this segment, the Company deals with printing inks and equipment used in packages such as gravure printing and flexographic graphic printing.

In the field of food packaging materials, etc., the Company is dedicated to developing environmentally friendly products using waterbased ink to assure their safety to the consumers.

☆Printing & Information Related Business

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	FY Dec.22		
Sales	75,180		
Operating Income	654		
Operating Margin	0.9%		

^{*}Unit: million yen



Sub segment Major products		
Offset inks	Offset inks, newspaper inks, UV curable inks, metal decorating inks	
Printing materials and equipment	Printing inspection devices, printing materials	
Printing and information, others	Screen inks, other developed products	





This segment is the base segment of the Company since its establishment. For this segment, the Company deals mainly with printing inks used for printing on paper.

The Company offers not only printing inks but also sales of machinery/equipment, support for streamlining customers' printing process, and support and tools for color management and color universal design.

Overseas expansion

While the Company is improving profitability by offering high-value-added products in the Japanese market, where a rapid growth is not expected, it is aggressively expanding its business from both production and sales perspectives in the overseas market where future growth is expected.

Development of its overseas manufacturing structures was almost completed during the previous Midterm Business Plan, and the Company is carrying out both raw material procurement and production at local sites.

As of the end of December 2022, the Company has about 44 overseas consolidated subsidiaries in a wide range of countries around the world.

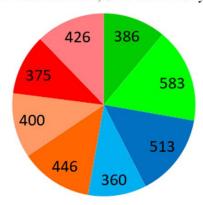
(Sales in each region, FY 12/2022)

	Sales	YoY	Operating	YoY
			Income	
Japan	1,770	+2.0%	29	-60.3%
Asia	1,269	+11.7%	37	-22.9%
Europe	269	+27.5%	5	-61.5%
The Americas	227	+40.1%	-1	-
Adjustment	-376	-	-1	-
Consolidated total	3,159	+9.7%	69	-46.9%

*Unit: 100 million yen



Domestic and Overseas Sales by Segment (FY December 2022, Unit: 100 million yen)



- Colorants and Functional Materials (Japan) Colorants and Functional Materials (Overseas)
- Polymers/Coatings (Japan)
- Polymers/Coatings (Overseas)
- Packaging Materials (Japan)
- Packaging Materials (Overseas)
- Printing/Information (Japan)
- Printing/Information (Overseas)
- * Elimination among regions is not taken into consideration.

1-5 ROE Analysis

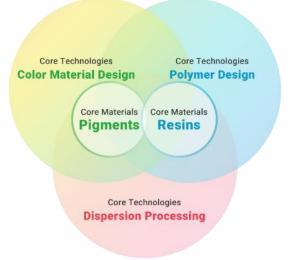
	FY 12/17	FY 12/18	FY 12/19	FY 12/20	FY 12/21	FY12/22
ROE (%)	4.8	5.4	3.9	2.8	4.4	4.3
Net income margin (%)	4.32	4.08	3.04	2.34	3.30	2.95
Total asset turnover	0.65	0.77	0.75	0.68	0.73	0.77
[times]						
Leverage [times](x)	1.72	1.72	1.72	1.76	1.84	1.87

Further improvement of profitability and efficiency is continuously desired in order to achieve an ROE of 8%, which is the generally recommended goal for Japanese enterprises, as a step toward achieving a P/B Ratio of over 1.0.

1-6 Characteristics and Strengths

(1) Strong technological edge

As described above, the Company has been manufacturing in-house its core materials, pigments and polymers, which are the raw materials of printing inks. Its technological capacities form the basis of high-quality printing ink production and lead to expansion of business areas and product range such as, LCD color filter materials, adhesive bonds and adhesive compounds.



(From the Company's HP)



(2) Excellent problem-solving skills

One of the reasons for the Company to be at the top of the Japanese printing inks industry is its excellent problem-solving capability in all aspects of printing.

The Company not only produces and supplies printing inks but also studies elements related to "printing" as a whole including plate making and images. Such efforts enable the Company to make technological proposals, demonstrate advanced service skills, and obtain high customer satisfaction.

(3) Environmental concerns

The Company is a forerunner in CO₂ emission reduction as well as production of eco-friendly inks such as non-VOC inks, water-based inks, and UV inks. In the newly developed countries, too, the environmental regulations are becoming tighter, and the needs for environmentally friendly products are increasing. The Company is also working on assuring safety such as chemical substances control and manufacturing a line of products that meet the Swiss Ordinance, ahead of other companies.

(4) Uniqueness of management strategies

The Company considers M&A as one of the options for exploring new markets with its technological edge, if M&A is expected to bring synergy effects to the Company. However, it is not intending to implement M&A just to increase the size of businesses. It is also taking an initiative in the printing ink industry to establish "local production for local consumption" policy in the overseas market for enhancing efficiency (e.g., reduction in transport mileage) and social contribution (e.g., utilization of local products) purposes.

2. Fiscal Year ended December 2022 Earnings Results

(1) Business Results

	FY 12/21	Ratio to	FY 12/22	Ratio to	YoY	Ratio to
		sales		sales		forecasts
Sales	287,989	100.0%	315,927	100.0%	+9.7%	+0.3%
Gross profit	58,704	20.4%	54,202	17.2%	-7.7%	-
SG&A	45,699	15.9%	47,336	15.0%	+3.6%	-
Operating	13,005	4.5%	6,865	2.2%	-47.2%	-1.9%
Income						
Ordinary	15,442	5.4%	7,906	2.5%	-48.8%	-7.0%
Income						
Net Income	9,492	3.3%	9,308	2.9%	-1.9%	+3.4%

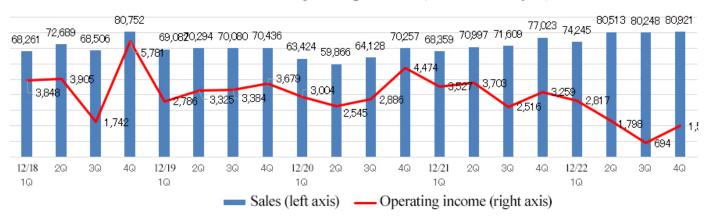
^{*}Unit: million yen. Accounting Standard for Revenue Recognition has been applied from the first quarter of the term ended December 2022. The figures for the second quarter of the term ending December 2021 are figures before its application, but since the impact is minor, the year-on-year comparison does not reflect the accounting standards. The same applies to the tables below.

Sales increased, but profit decreased.

Sales increased 9.7% year on year to 315.9 billion yen. Sales grew in major segments owing to the positive impact of foreign currency exchange rates and effects of price revision. The sales of packaging-related materials, such as liquid inks, pressure-sensitive adhesives and adhesives, grew especially overseas. Operating income decreased 47.2% year on year to 6.8 billion yen. Despite the expansion of sales (+800 million yen) and price revision (+19.9 billion yen), profit declined due to the rise in prices of raw materials (-21.1 billion yen), skyrocketing of energy costs (-1.8 billion yen), augmentation of expenses and logistics costs stemming from the increase in sales volume (-1.6 billion yen), decrease in quantity due to deterioration of market conditions (-3.3 billion yen), etc. It was impacted by the rapid decline of the market for LCD panels and electronics. Although price revisions contributed 25.2 billion yen during the two years of 2021 and 2022, it was not enough to offset the augmentation of costs caused by rising raw material prices of 33.3 billion yen. Net income stood at 9.3 billion yen, down 1.9% year on year. In step with the dissolution of the capital alliance with SAKATA INX, the company sold its shares and posted a gain on sales of investment securities of 5.6 billion yen.



Trends of sales and operating income (Unit: million yen)



(2) Trends by Segment

(2) Trends by Segmen	ii t				
	FY12/21	Ratio to	FY 12/22	Ratio to	YoY
		sales		sales	
Sales					
Colorant/Functional	74,995	26.0%	79,380	25.1%	+5.8%
materials					
Polymers/Coatings	70,736	24.6%	76,240	24.1%	+7.8%
Packaging materials	73,645	25.6%	83,464	26.4%	+13.3%
Printing/Information	66,695	23.2%	75,180	23.8%	+12.7%
Others/Adjustments	1,915		1,661	-	-
Total	287,989	100.0%	315,927	100.0%	+9.7%
Operating Income					
Colorant/Functional	5,391	7.2%	1,846	2.3%	-65.7%
materials					
Polymers/Coatings	3,570	5.0%	2,504	3.3%	-29.7%
Packaging materials	1,813	2.5%	963	1.2%	-46.9%
Printing/Information	1,730	2.6%	654	0.9%	-62.2%
Others/Adjustments	501	-	895	-	-
Total	13,005	4.5%	6,865	2.2%	-47.2%

^{*}Unit: million yen. Operating income is composed of the ratio of profit to sales.

☆Colorants and Functional Materials Related Business

While sales grew, profit declined due to the impact of rising prices of raw materials and increase in energy costs.

(Liquid crystal display color filter materials)

As the demand for liquid crystal panels for large televisions and smartphones fell, the production output of small, medium, and large-sized liquid crystal panels decreased rapidly, and shipments were extremely sluggish in the second half of the term.

(Plastic colorants)

The performance of colorants for containers, mainly for food products, was steady, but colorants for automobiles and business equipment showed little growth, due the lack of parts such as semiconductors and impact of the lockdown in China.

(Inkjet inks)

Inks for commercial printing and signboards performed favorably.



(Lithium-ion battery materials for vehicles)

Development of operational bases progressed in the U.S. and Europe, and sales activities were expanded along with the growth of demand.

☆Polymers & Coatings Related Business

While sales grew, profit declined due to the impact of rising prices of raw materials and increase in energy costs, despite the revision of selling prices and cost reduction.

(Coating materials)

In the second half, conductive adhesive sheets and electromagnetic wave shield films were impacted by sluggish conditions in the smartphone market. In addition, the production of heat-resistant low adhesion films for LCD panels and automobiles was also rapidly adjusted on the market, leading to a weak performance.

(Adhesives)

In Japan, adhesives for the packages of snacks, pet food, etc. performed steadily, while pressure-sensitive adhesives for labels and displays were impacted by sluggish demand. Overseas, sales of adhesives for food and chemical packages were steady in addition to growth of sales of pressure-sensitive adhesives owing to the expansion of facilities in the U.S. and India.

(Paint for cans)

While sales of new products with added functions expanded in Japan, the overall business showed little growth due to weak performance of paint for food cans stemming from low fish catches overseas, etc.

☆Packaging Materials Related Business

While sales grew, profit declined due to the impact of rising prices of raw materials and increase in energy costs.

(Liquid inks)

Core inks for packaging performed steadily in Japan, owing to the stable demand for inks for food products such as frozen food, beverages and noodles, and clients taking steps to increase their stock in expectation of difficulties in procuring various materials and rise in prices. Outside Japan, shipments in China stagnated due to the impact of the lockdown, but economic activities in other regions recovered and sales continued to expand, leading to a steady performance.

(Gravure cylinder plate-making business)

In addition to low demand for new plates for packages, electronics-related precision plate making showed little growth.

☆Printing & Information Related Business

While sales increased, profit declined.

(Japan)

While the performance of products for leaflets, advertisements and publishing was sluggish due to a structural shrinkage of the information printing market, products for paper containers and printing on metal for beverage cans performed steadily.

Although the company proceeded with cost reduction through a structural reform and cooperation with other companies in the same industry, profit was significantly affected by difficulties in procuring raw materials and rising prices, energy costs that remained high, etc.

(Overseas)

While market conditions were sluggish in Europe, China, etc. due to the situation in Ukraine and the impact of the novel coronavirus, economic activities recovered and sales expanded in other regions, leading to a steady performance.



(3) Financial standing and cash flows

@Main Balance Sheet

December 2021	Wilain Balance Sneet			_				_
Current Assets 223,589 229,247 +5,658 Current 112,125 113,463 +1,338		End of	End of	Increas		End of	End of	Increase
Current Assets 223,589 229,247 +5,658 Current liabilities		December	December	e		December	December	/Decrease
Current Assets 223,589 229,247 +5,658 Current liabilities 112,125 113,463 +1,338 Cash 64,816 55,117 -9,699 Payables 68,221 70,738 +2,517 Receivables 94,297 100,390 +6,093 ST Interest Bearing Liabilities 24,042 24,022 -20 Inventories 59,570 67,582 +8,012 Noncurrent Iniabilities 67,823 69,836 +2,013 Noncurrent Assets 183,306 181,930 -1,376 LT Interest Bearing Liabilities 55,415 59,851 +4,436 Tangible Assets 111,716 122,366 +10,650 Total Liabilities 179,948 183,300 +3,352 Intangible Assets 2,225 2,619 +394 Net Assets 226,947 227,877 +930 Investment, Others 69,364 56,944 -12,420 Retained 151,740 151,414 -326 Total assets 406,896 411,177 +4,281 Total liabilities 406,896 411,177		2021	2022	/Decrea		2021	2022	
Cash				se				
Cash								
Cash	Current Assets	223,589	229,247	+5,658	Current	112,125	113,463	+1,338
Receivables					liabilities			
Bearing Liabilities Searing Se	Cash	64,816	55,117	-9,699	Payables	68,221	70,738	+2,517
Liabilities Section	Receivables	94,297	100,390	+6,093	ST Interest	24,042	24,022	-20
Inventories 59,570 67,582 +8,012 Noncurrent liabilities 183,306 181,930 -1,376 LT Interest Bearing Liabilities 179,948 183,300 +3,352					Bearing			
Noncurrent Assets 183,306 181,930 -1,376 LT Interest 55,415 59,851 +4,436					Liabilities			
Noncurrent Assets 183,306 181,930 -1,376 LT Interest 55,415 59,851 +4,436	Inventories	59,570	67,582	+8,012	Noncurrent	67,823	69,836	+2,013
Bearing Liabilities Tangible Assets 111,716 122,366 +10,650 Total Liabilities 179,948 183,300 +3,352					liabilities			
Liabilities Liabilities Tangible Assets 111,716 122,366 +10,650 Total Liabilities 179,948 183,300 +3,352	Noncurrent Assets	183,306	181,930	-1,376	LT Interest	55,415	59,851	+4,436
Tangible Assets 111,716 122,366 +10,650 Total Liabilities 179,948 183,300 +3,352 Intangible Assets 2,225 2,619 +394 Net Assets 226,947 227,877 +930 Investment, 69,364 56,944 -12,420 Retained 151,740 151,414 -326 Others Earnings Total liabilities 406,896 411,177 +4,281 Interest 79,457 83,873 +4,416 Bearing Liabilities					Bearing			
Intangible Assets 2,225 2,619 +394 Net Assets 226,947 227,877 +930 Investment, 69,364 56,944 -12,420 Retained 151,740 151,414 -326 Cothers Earnings Total assets 406,896 411,177 +4,281 Interest 79,457 83,873 +4,416 Bearing Liabilities 406,896 411,177 +4,210 Cothers Cothe					Liabilities			
Investment, 69,364 56,944 -12,420 Retained 151,740 151,414 -326	Tangible Assets	111,716	122,366	+10,650	Total Liabilities	179,948	183,300	+3,352
Others Earnings Total assets 406,896 411,177 +4,281 Total liabilities and net assets 406,896 411,177 +4,281 Interest Bearing Liabilities 79,457 83,873 +4,416	Intangible Assets	2,225	2,619	+394	Net Assets	226,947	227,877	+930
Total assets 406,896 411,177 +4,281 Total liabilities and net assets 406,896 411,177 +4,281 Interest Bearing Liabilities 79,457 83,873 +4,416	Investment,	69,364	56,944	-12,420	Retained	151,740	151,414	-326
and net assets Interest 79,457 83,873 +4,416 Bearing Liabilities	Others				Earnings			
Interest 79,457 83,873 +4,416	Total assets	406,896	411,177	+4,281	Total liabilities	406,896	411,177	+4,281
Bearing Liabilities					and net assets			
Liabilities				- 	Interest	79,457	83,873	+4,416
					Bearing			
Balance					Liabilities			
					Balance			

^{*}Unit: million yen

Total assets increased 4.2 billion yen from the end of the previous term to 411.1 billion yen, mainly owing to an increase in receivables, inventories and tangible assets, despite a decrease in cash.

Total liabilities increased 3.3 billion yen from the end of the previous fiscal year to 183.3 billion yen due to an increase in interest bearing liabilities. Net assets grew 0.9 billion yen from the end of the previous fiscal year to 227.8 billion yen due to an increase in valuation difference on available-for-sale securities and a reduction in the deficit of the foreign exchange translation adjustment account. As a result, equity ratio dropped 0.4 points from the end of the previous fiscal year to 53.3%.

©Cash Flow

	FY 12/21	FY 12/22	Increase/Decrease
Operating Cas	h 15,760	4,262	-11,498
Flow			
Investing Cas	h -17,576	-5,645	+11,931
Flow			
Free Cash Flow	-1,816	-1,383	+433
Financing Cas	h -11,988	-8,102	+3,886
Flow			
Term End Cas	h 60,949	53,385	-7,564
and Equivalents			

^{*}Unit: million yen



The cash inflow from operating activities shrank due to the increase in gain on sales of investment securities and shrinkage of the increased sum of accounts payable trade. The cash outflow from financing activities shrank owing to income from issuance of corporate bonds in step with the dissolution of the capital alliance with SAKATA INX, etc.

The cash position has deteriorated.

(4) Topics

©Change their corporate name

The company announced in Dec. 2022 that they would change their corporate name.

The new name will be "artience Co., Ltd."



(From the Company's HP)

(Objective of the change)

Ever since its establishment in 1896, the company has offered products matching the needs of the society in the respective era, based on core technologies of pigments, plastic, dispersion, etc. However, in order to contribute to the new era and achieve an even further growth amid the dizzying changes of the social environment, they decided to change their management philosophy and redefine the value they provide as "emotionally resonant value."

While demonstrating a powerful resolution to swiftly grasp needs and challenges in the changing era and transform into a "company where each and every person becomes a protagonist and delivers pioneer value with cutting-edge technologies to people around the world," they will change their corporate name to a new one imbued with their hope as a step toward its realization.

(Hope infused into the new corporate name)

The new corporate name artience is a fusion of the word' "art" and "science." "art" expresses the viewpoint of liberal arts in addition to stimulation of the five senses and the mind, with colors as one example, while "science" represents technology, materials and rationality.

It signifies the hope to contribute to the realization of a spiritually rich future by offering "emotionally resonant value," which is born from fusing and refining art and science, the forte of the company, and will move people's hearts, to people around the world.

They plan to change the name on January 1st, 2024.

3. Fiscal Year ending December 2023 Earnings Forecasts

(1) Business forecasts

	FY 12/22	Ratio to	FY 12/23 Est.	Ratio to	YoY
		sales		sales	
Sales	315,927	100.0%	330,000	100.0%	+4.5%
Operating	6,865	2.2%	11,000	3.3%	+60.2%
Income					
Ordinary	7,906	2.5%	9,500	2.9%	+20.2%
Income					
Net Income	9,308	2.9%	6,000	1.8%	-35.5%

^{*} Unit: million yen. Forecasts are the figures announced by the Company.

Sales Increase, Operating Profit Rises

In the term ending Dec. 2023, sales are forecast to grow 4.5% year on year to 330 billion yen and operating income to increase 60.2%



year on year to 11 billion yen.

Although a recovery of the economy is expected while coexisting with the coronavirus, the impact of the downturn of overseas economies and increasing prices in Japan are projected amid continuous global monetary tightening. The company assumes that the severe business environment will persist due to prices of raw materials and energies remaining high, economic stagnation, etc., However, they will strive to improve operating income based on the recovery of market conditions, expansion of overseas business, cost reduction and price revision. Decline of sales and growth of profit are projected in the Printing & Information Related Business segment, while both sales and profit are expected to increase in other segments.



(Taken from the Company's material)

The company plans to pay a dividend of 90.00 yen/share, like in the previous term. The estimated payout ratio is 79.5%.

(2) Trends by Segment

Sales	FY 12/22	FY 12/23 Est.	YoY
Colorant/Functional materials	794	870	+9.6%
Polymers/Coatings	762	780	+2.3%
Packaging materials	835	880	+5.4%
Printing/Information	752	750	-0.2%
Others/Adjustment	17	20	ı
Total	3,159	3,300	+4.5%
Operating Income			
Colorant/Functional materials	18	36	+95.0%
Polymers/Coatings	25	45	+79.7%
Packaging materials	10	25	+159.6%
Printing/Information	7	12	+83.5%
Others/Adjustment	9	-8	-
Total	69	110	+60.2%

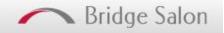
^{*} Unit: 100 million yen.

(Priority measures in each segment)

☆Colorants and Functional Materials Related Business

Increase in income and profit

They will expand the supply of dispersants for lithium-ion batteries to the market in Europe, the U.S., China and Japan. They will also



engage in enhancing sales of LCD panels on the Chinese market and expanding environmentally friendly colorants. Regarding inkjets, they will boost water-based inks for flexible packaging.

☆Polymers & Coatings Related Business

Increase in income and profit

They will engage in a mid-term reform of the revenue structure, based on the revision of prices and unprofitable products in Japan, and improvement of profitability based on overseas expansion as well as development of products in growing domains (environment, semiconductors and medical).

☆Packaging Materials Related Business

Increase in income and profit

They will promote price revisions in Japan and overseas, in addition to expanding mainly environmentally friendly products. They will strive to enhance their shares and improve revenues on the overseas market.

☆Printing & Information Related Business

Sales decreased, while profit grew.

The company will engage in expanding overseas business centered on functional ink in addition to promoting cost reduction and price revision through a continuous structural reform in Japan.

4. Progress of the medium-term management plan "SIC-II" (2021-2023)

(1) Progress until the term ended Dec. 2022

Amid the significantly changing business environment, the company proceeded with the following initiatives in the two years of 2021 and 2022 in regard to the three policies of "Measures to Strengthen Profitability," "Create and Expand Priority Development Domains" and "Enhance the Value of Management Resources for Sustainable Growth."



(Taken from the Company's material)

They are forecasting "sales of 330 billion yen and an operating income of 11 billion yen" in the term ending Dec. 2023. Although sales will exceed the "sales of 300 billion yen and an operating income of 22 billion yen" set at the beginning of the mid-term management plan, operating income is projected to fall short of the goal.

(2) Future initiatives

Initiatives regarding each policy for the term ending Dec. 2023, which is the last term, are outlined below.



Policy 1 Measures to Strengthen Profitability

They will expand business based on environmentally friendly products on the continuously growing overseas market in regard to the eight core products.

They are expecting an overseas ratio of 54.2% in 2023, rising further from 49.9% in 2021 and 52.8% in 2022.

Materials for displays	 Expand sales in the Chinese market. Strengthen efforts in the markets for small and medium-sizes displays and sensors.
Plastic colorants	Environmental friendly products (recycling, solar cells)
Functional dispersions	• Increase supply of dispersions for LiB in the European, U.S., Chinese, and Japanese markets.
Pressure sensitive adhesives	• Expand sales by leveraging new facilities in China, India, the U.S., and South Korea.
Laminating adhesives	• Expand capacity in Malaysia and increase sales in Southeast Asia.
Can coatings	 Expand water-based coatings that comply with environmental regulations of Europe and the U. S. in the U.S. and China.
Gravure inks	• Expand sales of PVC-free, water-based, middle-grade products in Southeast Asia and India.
UV curable inks	Shift to the paper packaging materials market.

(Taken from the Company's material)

With regard to materials for display, they will flexibly respond to the changes on the liquid crystal panel market.

While the liquid crystal panel market has been sluggish since the latter stages of the first half of fiscal 2022, the company assumes that it will recover from the second half of 2023, following a pause in inventory adjustment.

While the shift to China is quickly progressing and the competition will grow even fiercer, they will continue mass production tests, aiming for the adoption by clients.

With regard to the market for large panels, which are commodities, they will focus on enhancing cost competitiveness and operating systems in China in order to expand sales on the Chinese market, which is the largest in the world.

In the high-end market, they will boost thoroughly differentiated and functional products to expand their shares. Concretely, they will proactively launch small and medium finely-designed thin film panels, CMOS, wavelength-controlling sensors, products for reducing environmental burdens such as pigments without dispersion and low-temperature curing products, etc.

Policy 2 Create and Expand Priority Development Domains

The demand for conductive carbon nanotube (CNT) dispersants for lithium-ion battery cathodes is growing in China and North America, and the company is gradually starting mass production.

In China, the dispersant is now used in next-generation, high-volume lithium-ion batteries for high-end EVs with a long cruising range by CATL, the largest car battery manufacturer in the world. They will expand facilities at their Zhuhai Base in China and enhance their production capability. Lithium-ion batteries are scheduled to be equipped with the dispersant from the 2024 mass-production model. As the U.S. market for car batteries is rapidly expanding in North America, they newly established LioChem e-Materials (new company) as their second base in North America, in addition to their existing Georgia Plant. They are planning to start mass production in 2025.

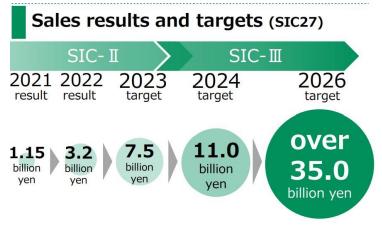


The company will expand their business as the sole CNT dispersant manufacturer with original technologies and a production system in four centers, with Japan and Europe added to China and North America.

Regarding the market in Europe, they will start mass production in the first quarter of 2023 in Hungary, where they have finished secondstage construction works, while starting third-stage construction works. In Japan, they are currently upgrading their facilities in Fuji, Shizuoka Prefecture.

The company, which possesses original technologies, will also promote the development of high-performance CNT dispersants (for cathodes) achieving both performance and safety based on technology innovation, as well as related materials such as materials for anodes.

They will aim for sales of 35 billion yen by 2026.



(Taken from the Company's material)

Policy 3 Enhance the Value of Management Resources for Sustainable Growth

With regard to ESG management, they will promote the following initiatives in each field.



(Taken from the Company's material)

With regard to the reinforcement of business foundations, they will introduce reskilling and recurrent education in addition to setting up a specialized organization for creating a new business. They will shift staff from back-office divisions to growing domains. Regarding the reinforcement of foundations based on DX, they will promote DX in the fields of marketing, technology development, production and management.

Capital Investments

They will make capital investments to promote growth.

They first planned to make capital investments a total of 40 billion yen in the three years of SIC-II, but they raised the amount to 46.4 billion yen.

In 2023, they are planning investments of 16.8 billion yen, including 8.8 billion yen for facilities for dispersants for lithium-ion batteries.



Major capital investments



Capital investment on this page is based on orders placed. Therefore, this is different from the financial accounting amounts shown in the Annual Securities Report.

FY2022 Results Briefing

(Taken from the Company's material)

5. Future Focuses

In the term ending Dec. 2023, which is the last term of the Mid-Term Management Plan "SIC-II," sales are projected to exceed the figures set at the beginning of the mid-term management plan period in all segments. It can be said that the company effectively utilized their technological capabilities and steadily met new demand while boosting their production capacity for materials related to lithium-ion batteries and environmentally friendly products.

On the other hand, it appears that operating income will reach about a half of the initial forecast, due to the rise in prices of raw materials and energy. While there is little what a single enterprise can do to address such significant changes in the external environment, it is necessary to keep creating products with higher profitability and highcost competitiveness, and endeavor to proceed with a structural reform as a step to increase P/B Ratio, which is below 1.0. We would like to pay attention to how much they can increase sales and profit in the term ending Dec. 2023, to drive their next mid-term management plan.

	2023	2023	balance
	(original plan)	(Forecast for this term)	balance
Sales	3,000	3,300	+300
Colorant/Functional materials	815	870	+55
Polymers/Coatings	755	780	+25
Packaging materials	800	880	+80
Printing/Information	645	750	+105
Operating income	220	110	-110
Colorant/Functional materials	69	36	-33
Polymers/Coatings	85	45	-40
Packaging materials	56	25	-31
Printing/Information	13	12	-1

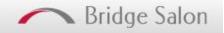
^{*} Unit: 100 million yen.

< Reference 1: Mid-Term Management Plan SIC-II (2021-2023)>

Under the 10-year long-term scheme, Scientific Innovation Chain 2027 (SIC27), aimed at achieving sustainable growth by 2027, the company breaks down the scheme into three 3-year mid-term management plans. They hope to clarify problems and roles in each stage, and to act steadily to realize an ideal future. Following the first stage of the scheme, Mid-Term Management Plan SIC-I (FY 2018-FY 2020), the second stage, Mid-Term Management Plan SIC-II (2021-2023) began in Jan. 2021.

Summary of the Previous Mid-Term Management Plan SIC-I (2018-2020)>

Due to the significant changes in the external environment, including the skyrocketing of material prices, the changes in the market



structure, and the coronavirus pandemic, the company failed to achieve its goals, but it was able to shift revenue sources to the polymers/coating and packaging material businesses, which are the prioritized area, and allocated resources to new businesses. In addition, the company was able to proceed with the priority measure of promoting environmentally friendly products and distributed them in overseas areas too. With this, the company thinks they were able to produce results to some extent.

On the other hand, it was clarified that the company needs to further accelerate structural reform mainly in the Printing & Information Related Business, create pillars of new products and businesses, and respond to rapid changes in the market structure amid the coronavirus crisis.

< Recognition of the External Environment>

As for the novel coronavirus, the situation is improving gradually in FY 2021, but we must wait for the economic recovery to the prepandemic level until FY 2022 or later. The overseas market is expected to recover earlier than the domestic market.

The future outlook remains uncertain and the business and market environments will remain harsh, but the company recognizes this adverse condition as a chance to change.

They set the keywords of the growing markets as "Green", "Digital", and "Health".

<Ideal State>

The company aims to become "a company that contributes to a new era through the enrichment of life and culture."

As mentioned above, the company defined the keywords of the growing markets as "Green", "Digital", and "Health", and set their priority development areas as "sustainability", "communication", and "life".

The company aims to realize an ideal state under the three policies: (1) Strengthen the profitability of businesses (2) Create more priority areas of development, and (3) Enhance the value of management resources for sustainable growth.

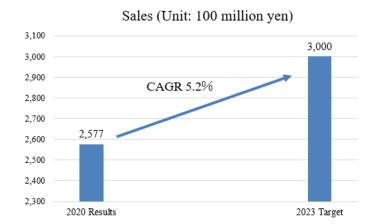


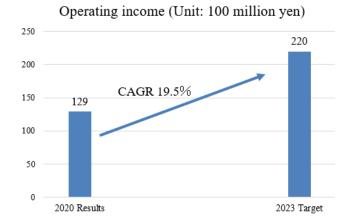
(Taken from the Company's material)

<Numerical Goals>

The company aims to achieve sales of 300.0 billion yen, an operating income of 22.0 billion yen, an operating income margin of 7% or higher, and a ROE of 7% or higher in the term ending Dec. 2023.







<Basic Policy 1: Measures to Strengthen Segments' Profitability>

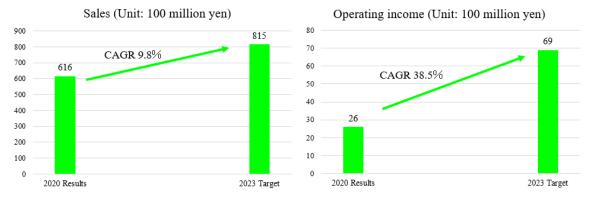
Measures for increasing revenues in each segment

Colorant/Functional	Establish an earning pillar in growing markets
materials	-EV: To handle materials related to lithium-ion batteries
	-Digital: To expand the market share of resist inks for flat panel display (FPD) in China, and handle resist inks
	for image sensors and inkjet inks
	-Plastic colorants: To reorganize facilities and promote products with high added value
Polymers/Coatings	♦ Overseas expansion of the adhesives business and the entry to growing markets with new polymers
	-Packaging/industrial materials: To expand business outside Japan, by enhancing its production capacity and
	enriching the lineup of environmentally friendly products
	-5G and IoT: To establish a position in the 5G market and enter the semiconductor market
	-Medical/healthcare: To expand and develop the lineup of related products
Packaging materials	♦ Make products environmentally friendly and expand its business mainly in the Asian market
	-To commercialize the recycling of packages
	-To intensively invest in overseas growing markets in China, India, Turkey, Southeast Asia, etc.
Printing/Information	◆ Evolution into a profitable business that has adapted to the market environment
	-To promote functional inks for packages, such as paper containers, and the industrial field
	-To launch the color/communication business

^{*}From FY 2021, inkjet inks are included in the business of colorants/functional materials business rather than the printing/information business.

The target sales and operating income in each segment are as follows.

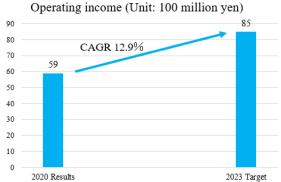
Colorant/Functional materials



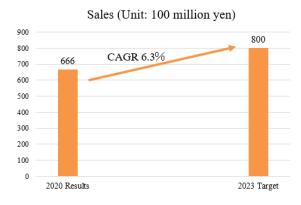


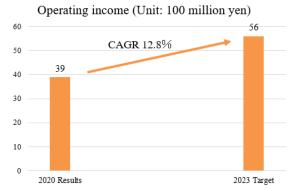
Polymers/Coatings





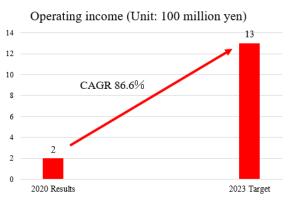
Packaging materials





Printing/Information





<Basic Policy 2: Create and Expand Priority Development Domains>

⊙ Three priority development domains

In the three priority development domains, the company will focus on the following points.

Sustainable Science	♦ Realization of a sustainable society
	(Major items to be developed)
	-Environmentally friendly packages made from biomass and recycled materials
	-Materials of lithium-ion batteries for EVs and new energy





⊙ Reform of the development structure

The company will strengthen the R&D structure in the priority development domains.

Research institutes will be established in the main company of each segment. These institutes will act as the specialized department for mid-term development strategies, dealing with them in a span of two to five years, and accelerate the creation of new products and businesses.



Colorants/Functional materials	Advanced Material Development Laboratory
Polymers/Coatings	Polymer Material Development Laboratory
Packaging materials	Exactional Metarial Development Laboratory
Printing/Information	Functional Material Development Laboratory

For longer-term development, Holdings R&D laboratories and Production Technology Research Laboratory will be in charge, and proceed with R&D in cooperation with other institutes.

(investment plan

The company will concentrate investments in growing markets.

For SIC-II, it plans to invest a total of 40 billion yen. In detail, 29% will be invested in colorants/functionals materials, 31% in polymers/coatings, 25% in packaging materials, and 11% in printing/information.

In six years, with the focus on the next three years (SIC-III), the company plans to invest about 20 billion yen in colorants/functional materials, about 30 billion yen in polymers/coatings, and about 40 billion yen in packaging materials.

The company plans to construct/upgrade factories for each segment as follows: (1) For colorants/functional materials, factories for EV-related materials in Japan, China, the U.S., and Europe, (2) for polymers/coating, factories for pharmaceuticals (Moriyama Factory), new polymer synthesis (Kawagoe Plant), and adhesives (the U.S., China, and India) and (3) for packaging materials, factories in Turkey, India, China, and Indonesia.

<Basic Policy 3: Enhance the Value of Management Resources for Sustainable Growth>

For reforming the corporate culture, the company will implement the following measures.

Reform of workstyles and HR systems

The company will strengthen a performance-based evaluation system.

Based on the declaration of empowerment of women, the company will raise the ratio of female managers in Japan from 4% to 8%. It will recruit not only new graduates, but also various workers throughout the year.

- Will recreate first offing from graduates, our also various workers unoughout the year

It will discern the optimal scale of workforce and conduct appropriate staffing.

As remote work has become common, the company will reform its offices for innovation.

Promotion of Digital Transformation (DX)

The company recognizes DX as an important management mission for achieving sustainable growth and will promote it in each department.

Department	Measures
Sales	-Digital marketing
	-Development of new business models
Production	-Smart factories
	-Improvement of processes by IoT
Technology development	-Materials informatics
	-Acceleration of development
Management	-Promotion of Robotic Process Automation (RPA)
	-Education for promoting DX

⊙ Transformation of the governance structure

In particular, the company will improve the independence of directors and auditors, secure transparency, adopt a performance-based remuneration system, strengthen risk management, and reduce strategically held shares.

O Promotion of environment-conscious management

As the company is deeply aware of environmental issues, it will focus on the development and promotion of environmentally friendly products, and contribute to the development of a sustainable society.



Social issues	Products/services
Energy saving	-High-sensitive UV curing
	-EB (electron beam) curing
Measures for VOC	-To make them water-base
	-To make them solvent-free
Reduction of CO ₂ emissions	-Biomass products
Reduction of food loss	-To retain freshness
	-To supply of materials for retort pouches
Recycling of waste plastics	-Biodegradation
	-Recycling system

In addition, the company will actively address the problem of climate change, by reducing CO₂ emissions and saving energy, to realize the Carbon Neutrality 2050 vision, which is promoted by the government. In (FY)2022 following (FY)2020, Kawagoe Plant received the Chairperson Award of The Energy Conservation Grand Prize, Japan.

Cash flow policy

The company puts importance on the balance between financial soundness and investment/return to shareholders.

For financial soundness, the company will keep capital-to-asset ratio at the appropriate level and secure liquidity on hand.

It will actively conduct the investment in equipment, technologies, and human resources, and M&As.

It will also continue to pay dividends stably. In Feb. 2021 and in 2022, the company purchased treasury shares at a price of 5 billion yen and 1.1 billion, respectively. The company will plan to purchase more treasury shares depending on the situation.

< Reference 2: Regarding Corporate Governance>

Organization type, and the composition of directors and auditors

Organization type	Company with an Audit and Supervisory Committee
Directors	11 directors, including 6 external ones (5 of which are independent directors)

(As of March 23, 2023)

© Corporate Governance Report

The latest update: April 3, 2023.

<Basic Views>

The Toyo Ink Group ("the Group") aims to enhance the overall value of the entire Group under a holding company system by strengthening groupwide strategic capabilities, speeding up management, and striking a balance between optimization on a groupwide scale and for individual lines of business.

The Group's management framework revolves around the "Toyo Ink Group's Philosophy System," which takes the Group's basic position on Group company management and distils it into a Corporate Philosophy, Corporate Policy and a set of Guiding Principles, and a "CSR Value System," which consists of a CSR Charter and CSR Action Guidelines that clearly underline the Group's commitment to social responsibility.

By putting the Toyo Ink Group's Philosophy System and CSR Value System into practice, the Group will contribute to improving the sustainability of consumption, life and the global environment through science-driven manufacturing, with the aim of being "a company that contributes to the enrichment of life and culture throughout the world," as stated in the Group's Corporate Policy.

To achieve that, the Group has made it a top priority to evaluate its own corporate activities from the same point of view as its stakeholders, and to ensure balanced management from an economic, social, human and environmental standpoint, in order to create tangible and intangible corporate value and fulfill its social responsibilities.

To make that a reality, the Group is implementing the following measures.

- Adequately implementing approval and affiliate management regulations applicable to Group companies, to enable delegation of executive capabilities to individual operating companies and to strengthen corporate governance
- Improving internal control systems



- Strengthening the legal functional capabilities of General Meetings of Shareholders, the Board of Directors, the Audit and Supervisory Committee, accounting auditor and other such parties, in order to improve leadership and monitoring capabilities
- Disclosing information quickly, accurately and widely, in order to improve management transparency
- Strengthening and improving compliance systems
- Promoting environmental preservation on a global scale

These and other measures are intended to establish good relationships with all of the Group's stakeholders, including shareholders, suppliers, local communities and employees, and to enhance corporate governance.

< Reasons for Non-compliance with the Principles of the Corporate Governance Code> The Company is implementing all of the principles under the Corporate Governance Code.

< Disclosure Based on the Principles	of the Corporate Governance Code(excerpt)>
Principle 1.4 Cross-	The Company holds shares of companies as it deems necessary for policy reasons as part of its
Shareholdings]	management strategy, including business alliances, the maintenance and strengthening of
	business relationships and the stable procurement of raw materials.
	The Board of Directors examines the benefits of holding these cross-held listed stocks every
	year, comparing them with the cost of capital and the status of transactions of each individual
	stock, and the Company reduces the number of stocks it holds when it determines that it is no
	longer appropriate to hold the stocks, taking into consideration the
	situation of the companies and market trends.
	In FY2022, the Company sold all of the shares of nine stocks that it held and some of the shares
	of three stocks that it held.
	Voting rights in relation to cross-shareholdings for listed shares will be exercised in an
	appropriate manner on a case-by-case basis, taking into account whether or not the relevant
	proposal will help to enhance the corporate value of the issuing company over the medium to
	long term, whether or not it will contribute to the profits of all shareholders, including the
	Company, and the qualitative and overall impact it will have on the Group in terms of
	management and business. Where an issuing company has special circumstances, such as the
	occurrence of significant damage to its corporate value or a serious compliance violation, or
	where there is a concern that an ssuing company may damage the corporate value of the
	Company as its shareholder, judgment over whether or not to approve will be made carefully
	by collecting sufficient information through dialogues with the issuing company or by other
	means.
Principle 2.4 Ensuring Diversity,	Based on its corporate philosophy, "People-oriented management," the Group believes that
Including Active Participation of	recruiting diverse human resources regardless of gender, age, nationality or disability and
Women	accepting their diverse values, thoughts and ideas will generate innovative ideas and innovation
	and promote the creation of value through diversity.
	One of the most important issues is the promotion of the active participation of women. In terms
	of promoting a comfortable working environment, the Company has created an environment
	where employees are able to work actively while balancing childcare and work, and in 2010 the
	Company acquired Kurumin mark certification. By introducing a half-day off system and then
	also enhancing its assistance system, the Company also received Eruboshi certification in 2017,
	and currently 100% of employees are returning to work after childcare leave. Regarding the
	promotion of the active participation of women, approximately 37% of the new graduates hired
	in April 2023 are women. In addition, the Company aims to establish an education system to
	develop women candidates for managerial positions.
	The Group will facilitate the advancement of women in terms of both ease of work and careers
_	and promote the appointment of women to managerial positions
Supplementary Principle 2.4.1	The Group set itself a target of increasing the percentage of managers in Japan that are women
Ensuring the Diversity in	to 8% by FY2023.



Promotion to Core Positions

The Group will provide career training for female future leaders and implement other initiatives to encourage female employees to take the first step in trying new jobs and duties with confidence and courage.

In the Group's view, it is unnecessary to set a numerical target for the percentage of managers in Japan that are foreign nationals and midcareer hires given that its policy is not to discriminate on the basis of nationality or career background in the context of employment and career development. The Group endeavors to ensure diversity in accordance with the policy described later in this report.

As of January 2023, the percentage of managers in Japan that are women was around 4.5%, the percentage that are foreign nationals was less than 1% and the percentage that are midcareer hires was around 32%.

The Group's policies to cultivate human resources and develop an internal environment to ensure diversity are follows.

<Cultivate human resources that have global perspectives and abilities>

The Group cultivates human resources based on a policy of developing abilities through diverse practical work experience related to overseas business both in Japan and overseas.

In anticipation of future needs, the Group also cultivates human resources through practical training at overseas subsidiaries aimed primarily at young and middle-ranking employees.

<Foster diversity to invigorate the organization>

In order to (i) provide information and training for mutual respect and the effective use of differences among employees and (ii) promote diversity, the Company established the Diversity and Inclusion (D&I) Promotion Office, a dedicated organization, to promote diversity and inclusion in 2023 to develop an environment, design programs and consider measures that will enable the active participation of diverse human resources.

[Supplementary Principle 3.1.3 Sustainability Initiatives]

In its long-term corporate vision, SIC27, the Group defines the concept of "sustainable growth" as the Toyo Ink Group growing sustainably and contributing to improvement of society's sustainability. In addition, and the Group has set the basic vision of promoting a range of sustainability activities centered on the achievement of carbon neutrality in 2050 and interim goals in 2030 by formulating its sustainability vision, TSV2050/2030, as a practical long-term goal for the Group's sustainability activities. Framework to promote sustainability and disclosures of climate change-related financial information based on the TCFD recommendations are published in the Company's website and Integrated Report 2022.

With respect to human capital, the Group sees human resources as its most important management capital and actively invests in them, establishing the "Toyo Ink Vocational College", introducing a human resource rotation program, promoting women's participation and advancement in the workplace to increase diversity, and ensuring safety and health in the workplace as a manufacturer. Similarly, in terms of the creation of new intellectual property, the Company has renewed its R&D structure to promote the development of new products and the creation of new businesses which meet the needs of society. In addition, the Group is

endeavoring to promote open innovation and strategically acquire patents, and is actively disclosing information about these activities through its integrated report and other means.

♦ Long-Term Corporate Vision "SIC27": Company > Strategy (https://schd.toyoinkgroup.com/en/corpinfo/strategy.html)

♦ Sustainability Vision "TSV2050/2030":

CSR > CSR of the Toyo Ink Group > Sustainability Vision "TSV2050/2030"

(https://schd.toyoinkgroup.com/en/csr/group/tsv.html)

♦ Integrated Report 2022: CSR > Download Reports > Integrated Report

(https://schd.toyoinkgroup.com/en/ir/archives/pdflib/report/2022/integrated report2022en.pdf)

♦ Sustainability Data Book 2022: CSR > Download Reports > Sustainability Data Book



Principle 5.1 Policy for Constructive Dialogue with Shareholders

(https://schd.toyoinkgroup.com/en/csr/doc/reports/sust_databook2022en.pdf)

The Company regards shareholders and investors as key stakeholders, and makes every effort to respect shareholders' rights and improve shareholder value, based on its Guiding Principle to "enhance shareholder satisfaction (SHS)." In particular, constructive dialogue with shareholders and investors is positioned as an important factor. The Company has appointed a Director in charge of IR, in order to effectively share information through organic cooperation between related divisions. The General Affairs Department and the Corporate Planning Division work to promote dialogue with shareholders and investors, respectively. If feedback obtained through dialogue is deemed to be important, it is then reported to the relevant Director as necessary. In terms of managing insider information, there are regulations in place such as Insider Trading Prevention & Management Regulations and Information Protection & Management Regulations. The Group has also set out specific action guidelines in the form of its Business Code of Conduct, and distributes guidebooks to all Group employees, as well as providing regular education in an effort to effectively raise awareness.

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