# Business Results for 3Q(Nine months) of FYE 3/2023

February 10th, 2023

STELLA CHEMIFA CORPORATION

Securities code: 4109

# Index

## 【Business Results】



## 【Reference Material】

(Corporate Profile・Introduction of Our Business)

# Performance Highlights

## [3Q (Nine months) of FYE 3/2023 Results]

- Sales volume of Semiconductors is about the same level as the same period last year.
- The price of anhydrous hydrofluoric acid(AHF), a key raw material, soared year on year.
- Recording impairment loss as to the equipment for additives used for lithium-ion secondary batteries to increase capacity on Energy department.

## [Full-year Forecast]

- The full-year forecast has been revised due to factors including a slowdown of semiconductor market, price of anhydrous hydrofluoric acid(AHF)  remaining high and recording impairment loss.

# Financial Summary

| (million yen) | 3Q (Nine months) of FYE 3/2022 | 3Q (Nine months) of FYE 3/2023 | Increase/ Decrease | Percentage Increase/ Decrease |
|---|---|---|---|---|
| Sales Revenue | 27,124 | 28,270 | 1,145 | 4.2 |
| Gross Profit | 6,717 | 6,017 | −699 | −10.4 |
| Operating Profit | 3,520 | 3,068 | −452 | −12.8 |
| Ordinary Profit | 3,936 | 3,750 | −186 | −4.7 |
| Quarterly Profit Attributable to Owners of Parent | 3,159 | 1,658 | −1,500 | −47.5 |
| Earnings Per Share (yen) | 248.02 | 134.42 | −113.60 | |
| Capital Expenditures | 1,979 | 3,523 | 1,544 | 78.1 |
| Depreciation & Amortization | 2,012 | 1,922 | −90 | −4.5 |
| Research & Development Expenses | 534 | 381 | −152 | −28.6 |

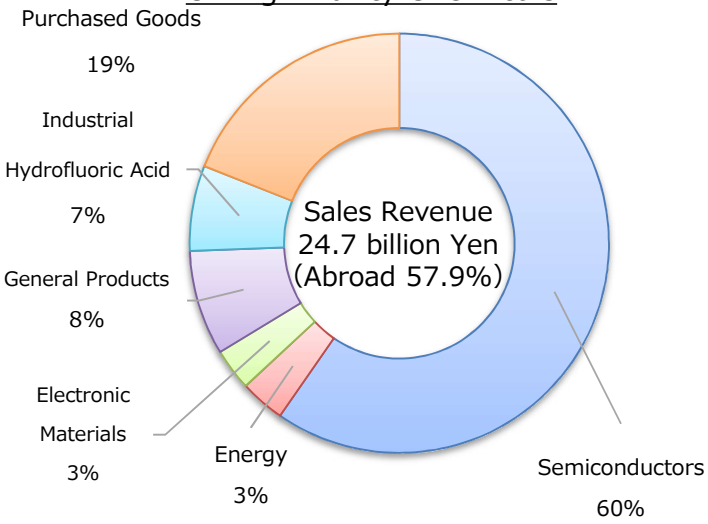
# Sales Revenue and Operating Profit by Business Segment

| (million yen) | Sales Revenue | | | | Operating Profit | | | |
|---|---|---|---|---|---|---|---|---|
| | 3Q (Nine months) of FYE 3/2022 | 3Q (Nine months) of FYE 3/2023 | Increase/ Decrease | | 3Q (Nine months) of FYE 3/2022 | 3Q (Nine months) of FYE 3/2023 | Increase/ Decrease | |
| | | | Amount | % | | | Amount | % |
| High-Purity Chemical Business | 23,399 | 24,700 | 1,300 | 5.6 | 3,658 | 2,619 | −1,039 | −28.4 |
| Transportation Business | 3,515 | 3,453 | −62 | −1.8 | 606 | 441 | −164 | −27.2 |
| Medical Business | 84 | - | −84 | - | −511 | - | 511 | - |
| Other | 124 | 116 | −7 | −6.3 | 13 | 16 | 3 | 25.8 |
| Eliminations and Corporate | - | - | - | - | −246 | −8 | 238 | - |
| Total | 27,124 | 28,270 | 1,145 | 4.2 | 3,520 | 3,068 | −452 | −12.8 |

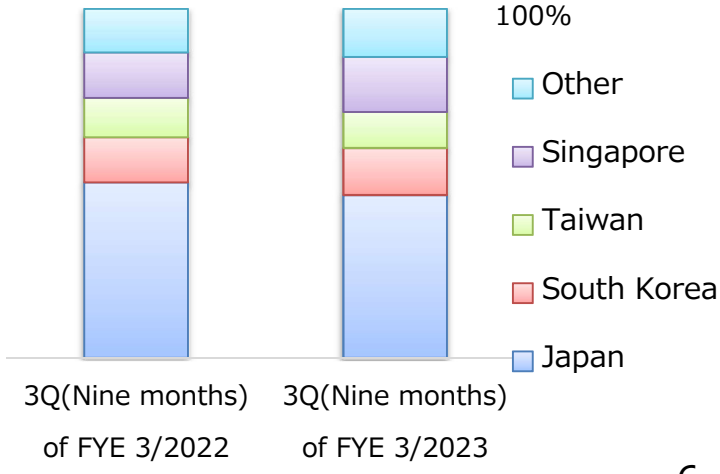
# Sales Revenue of High-Purity Chemical Business (Breakdown)

| (million yen) | 3Q (Nine months) of FYE 3/2022 | 3Q (Nine months) of FYE 3/2023 | Increase/ Decrease | Percentage Increase/ Decrease |
|---|---|---|---|---|
| Semiconductors | 13,272 | 14,729 | 1,456 | 11.0 |
| Energy | 1,882 | 856 | −1,025 | −54.5 |
| Electronic Materials | 947 | 796 | −150 | −15.9 |
| General Products | 1,669 | 2,002 | 332 | 19.9 |
| Industrial Hydrofluoric Acid | 2,927 | 1,621 | −1,305 | −44.6 |
| Purchased Goods | 2,700 | 4,694 | 1,993 | 73.8 |
| Total | 23,399 | 24,700 | 1,300 | 5.6 |

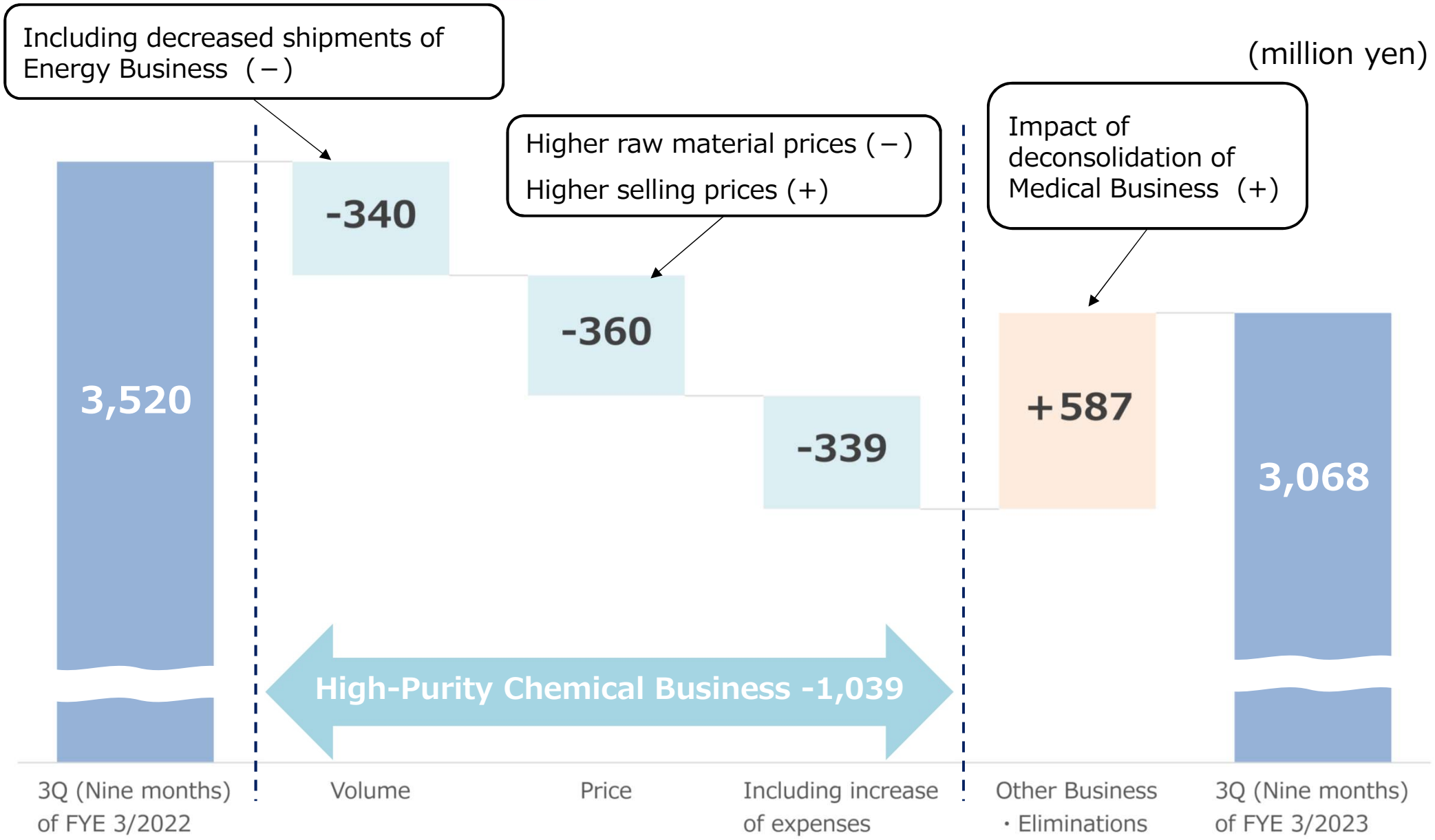
Sales Revenue Constituent Ratio Of High-Purity Chemicals



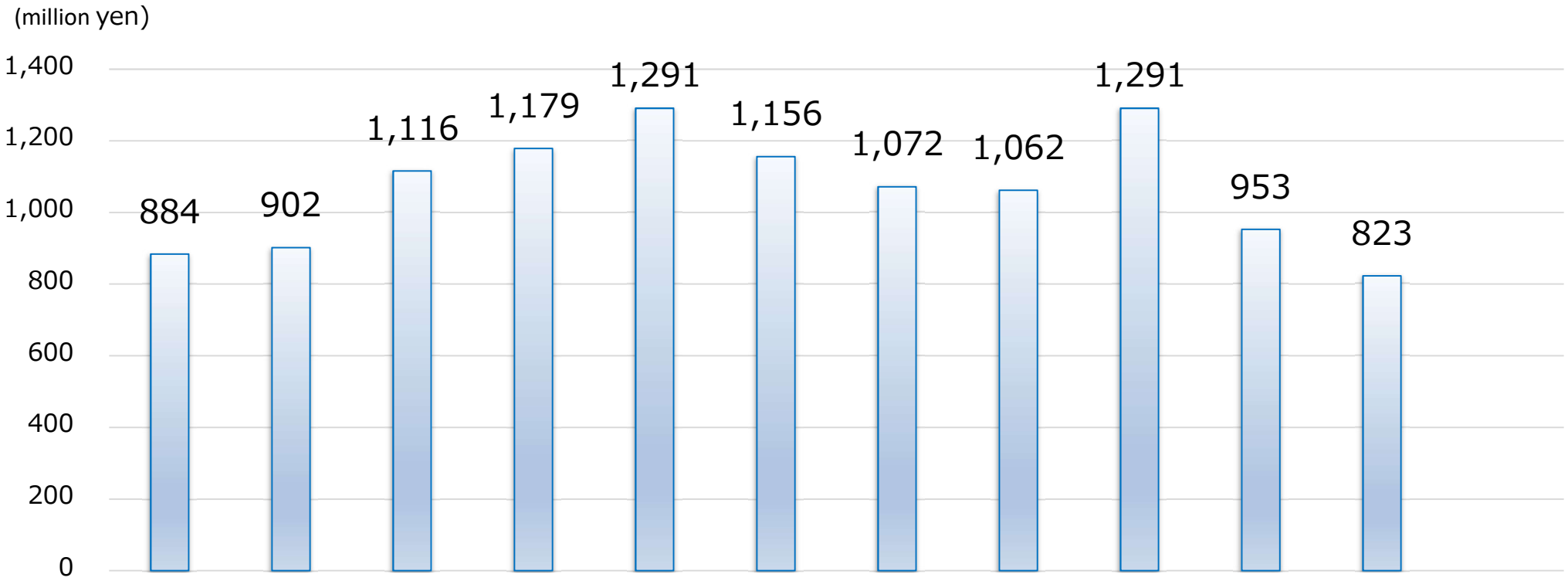

Semiconductors Shipping Ratio by Country



# Analysis of Operating Profit (Year on year)

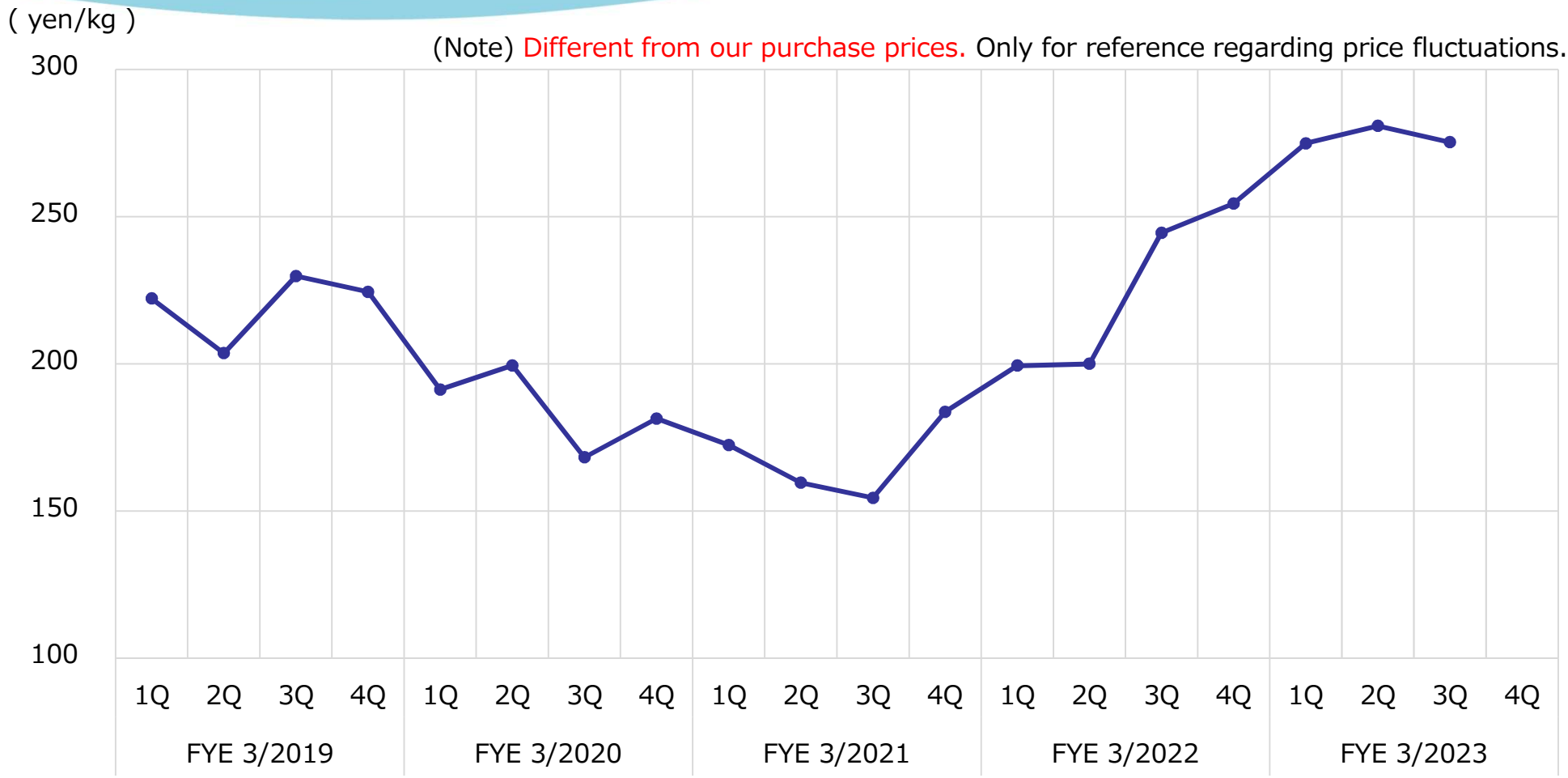


# Change of Quarterly Operating Profit




| | FYE 3/2021 | | | | FYE 3/2022 | | | | FYE 3/2023 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q |
| Sales Revenue | 8,222 | 8,389 | 8,315 | 7,965 | 8,896 | 9,212 | 9,015 | 10,171 | 9,764 | 9,854 | 8,651 | |
| Operating Profit | 884 | 902 | 1,116 | 1,179 | 1,291 | 1,156 | 1,072 | 1,062 | 1,291 | 953 | 823 | |
| Operating Profit Margin | 10.8% | 10.8% | 13.4% | 14.8% | 14.5% | 12.5% | 11.9% | 10.4% | 13.2% | 9.7% | 9.5% | |

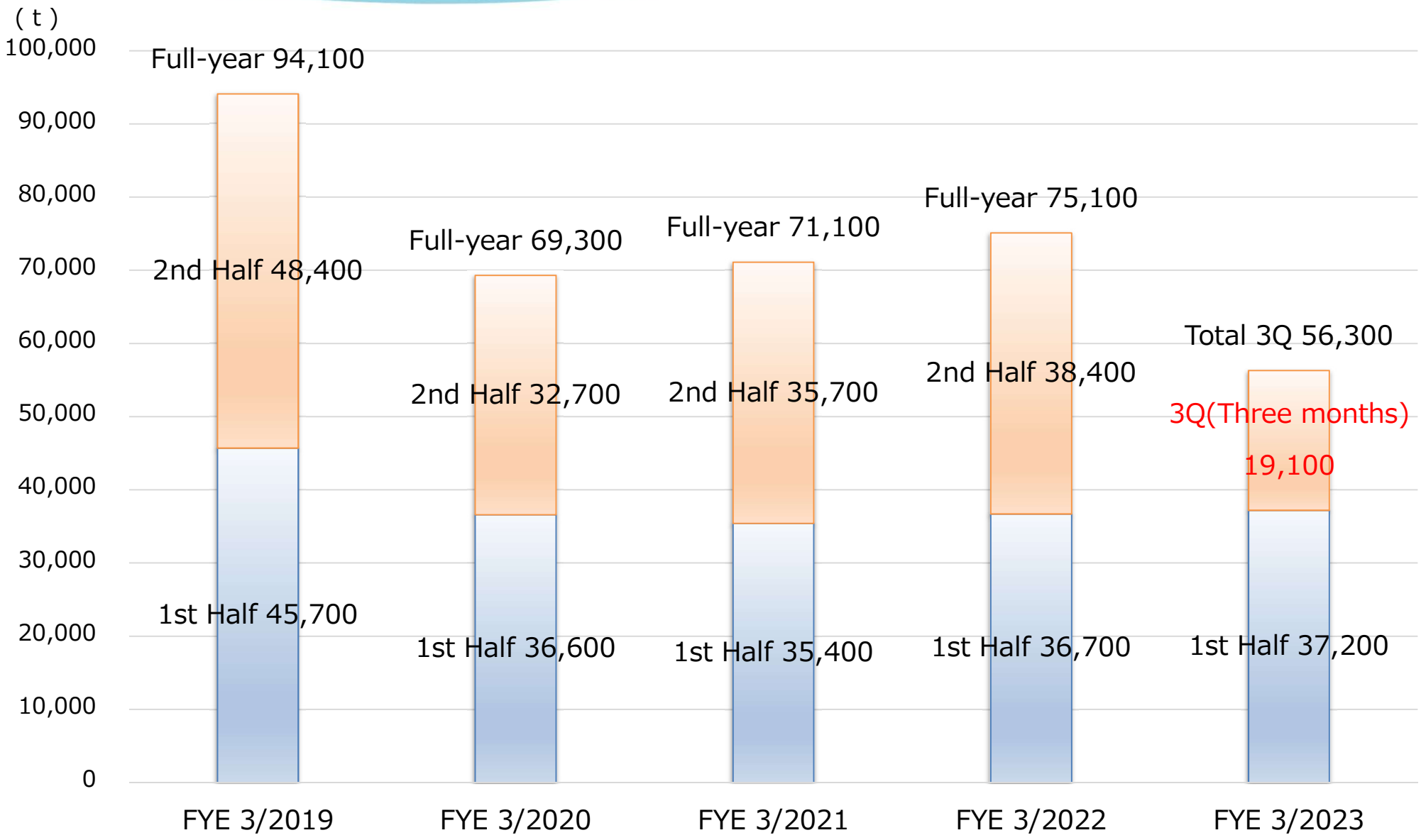
# Transitions in Trade Statistics Value of Anhydrous Hydrofluoric Acid(AHF)




| (yen/kg) | FYE 3/2019 | FYE 3/2020 | FYE 3/2021 | FYE 3/2022 | FYE 3/2023 |
|---|---|---|---|---|---|
| Average Price | 220 | 186 | 168 | 225 | 277 |

Source: Prepared by our company based on the Ministry of Finance's "Trade Statistics of Japan" (http://www.customs.go.jp/toukei/info/)

# Change of Shipping Volume of High-Purity Hydrofluoric Acid (Semiconductors)



# Balance Sheet

| (million yen) | FYE 3/2022 End-of-Year | Dec.31,2022 | Increase/ Decrease | Percentage Increase/ Decrease |
|---|---|---|---|---|
| Assets | **56,598** | **54,913** | **−1,684** | **−3.0** |
| Cash and deposits | 15,895 | 14,754 | −1,141 | −7.2 |
| Operating receivables | 8,642 | 8,550 | −92 | −1.1 |
| Inventory assets | 5,271 | 5,219 | −51 | −1.0 |
| Property, plant, and equipment | 21,667 | 21,644 | −23 | −0.1 |
| Intangible assets | 375 | 293 | −81 | −21.7 |
| Liabilities | **13,869** | **11,993** | **−1,876** | **−13.5** |
| Operating liabilities | 3,522 | 3,653 | 131 | 3.7 |
| Interest-bearing liabilities | 5,594 | 4,530 | −1,063 | −19.0 |
| Net Assets | **42,728** | **42,920** | **192** | **0.5** |
| Equity capital | 42,170 | 42,603 | 432 | 1.0 |
| Liabilities and Net Assets | **56,598** | **54,913** | **−1,684** | **−3.0** |

# Financial Forecast

＊Released on Feb.10.2023

| (million yen) | FYE 3/2023 Initial Forecast | FYE 3/2023 Revised Forecast* | Increase/ Decrease | Percentage Increase/ Decrease | FYE 3/2022 Actual |
|---|---|---|---|---|---|
| Sales Revenue | 37,500 | 35,600 | −1,900 | −5.1 | 37,296 |
| Operating Profit | 4,600 | 3,750 | −850 | −18.5 | 4,583 |
| Ordinary Profit | 5,800 | 4,300 | −1,500 | −25.9 | 5,707 |
| Profit Attributable to Owners of Parent | 4,200 | 2,000 | −2,200 | −52.4 | 5,364 |
| Earnings Per Share (yen) | 335.63 | 163.13 | −172.50 | | 422.97 |
| Dividend (yen) | 60 | 60 | - | | 60 |
| ROE (%) | 9.6 | 4.7 | −4.9 | | 13.7 |
| Capital Expenditures | 4,900 | 5,000 | 100 | 2.0 | 2,648 |
| Depreciation & Amortization | 2,500 | 2,550 | 50 | 2.0 | 2,713 |
| Research & Development Expenses | 600 | 600 | - | - | 744 |

# Forecast on Sales Revenue and Operating Profit by Business Segment

＊Released on Feb.10.2023

| (million yen) | Sales Revenue | | | | Operating Profit | | | |
|---|---|---|---|---|---|---|---|---|
| | FYE 3/2023 Initial Forecast | FYE 3/2023 Revised Forecast* | Percentage Increase/ Decrease | FYE 3/2022 Actual | FYE 3/2023 Initial Forecast | FYE 3/2023 Revised Forecast* | Percentage Increase/ Decrease | FYE 3/2022 Actual |
| High-Purity Chemical Business | 32,930 | 30,840 | −6.3 | 32,330 | 3,990 | 3,150 | −21.1 | 4,776 |
| Transportation Business | 4,370 | 4,600 | 5.3 | 4,676 | 570 | 580 | 1.8 | 764 |
| Medical Business | - | - | - | 100 | - | - | - | −729 |
| Other | 200 | 160 | −20.0 | 189 | 30 | 30 | - | 20 |
| Eliminations and Corporate | - | - | - | - | 10 | −10 | −200.0 | −248 |
| Total | 37,500 | 35,600 | −5.1 | 37,296 | 4,600 | 3,750 | −18.5 | 4,583 |

# Change in Classification of High-Purity Chemical Business

In the High-Purity Chemical Business, we have used nine categories for presentation. However, in light of the current business strategy and business scale, we will change the number of categories to six as shown in the following table from the fiscal year ending March 2023.

New categories in High-Purity Chemical Business (from the fiscal year ending March 2023)

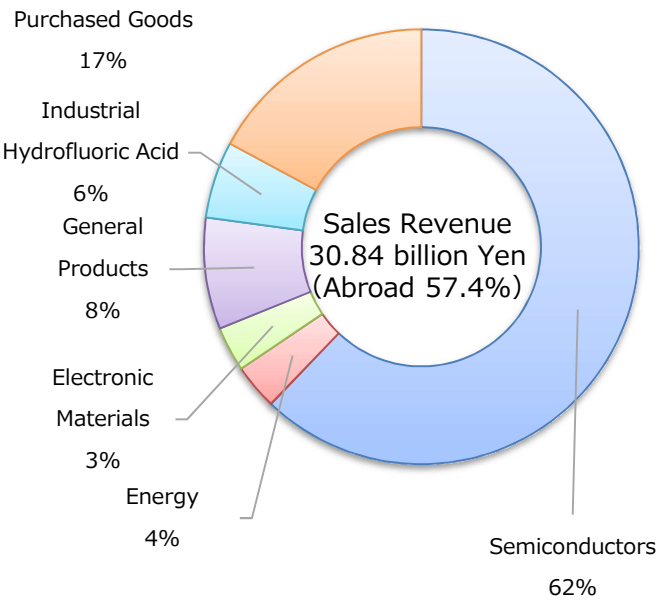
| New categories (six) | New categories in detail | (Reference) Old categories |
|---|---|---|
| Semiconductors | High-purity Hydrofluoric Acid for Semiconductors/LCDs | Semiconductors/ LCDs |
| Energy | Fluoride materials for batteries | Batteries |
| | Enriched Boron | General Products |
| Electronic Materials | Fluoride materials for raw materials used for semiconductor devices/capacitors | Semiconductor Devices |
| | R&D Products (Phosphor materials etc) | General Products |
| General Products | Fluoride materials for catalysts | Catalysts |
| | Fluoride materials for toothpaste (Tin Fluoride) | General Products |
| | Other Fluoride materials | General Products |
| Industrial Hydrofluoric Acid | Hydrofluoric Acid for surface treatment | Surface Treatment |
| | Anhydrous Hydrofluoric Acid for alternatives for CFCs | Alternatives for CFCs |
| | Gypsum | Gypsum |
| Purchased Goods | Anhydrous Hydrofluoric Acid for alternatives for CFCs(Purchase & Sale) | Alternatives for CFCs |
| | Purchased Goods | Other |

# Forecast on Sales Revenue of High-Purity Chemical Business (Breakdown)

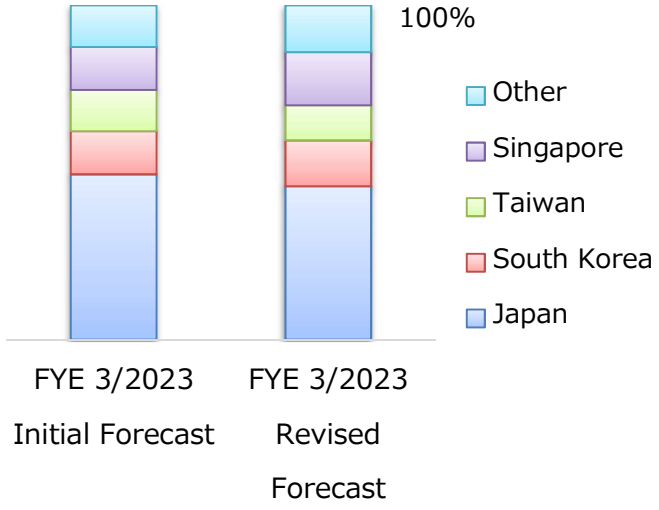
*Released on Feb.10.2023

| (million yen) | FYE3/2023 Initial Forecast | FYE3/2023 Revised Forecast* | Increase/ Decrease | Percentage Increase/ Decrease | FYE3/2022 Actual |
|---|---|---|---|---|---|
| Semiconductors | 19,570 | 19,170 | −400 | −2.0 | 17,859 |
| Energy | 1,500 | 1,040 | −460 | −30.7 | 3,121 |
| Electronic Materials | 1,320 | 1,030 | −290 | −22.0 | 1,280 |
| General Products | 2,440 | 2,560 | 120 | 4.9 | 2,246 |
| Industrial Hydrofluoric Acid | 3,600 | 1,760 | −1,840 | −51.1 | 3,919 |
| Purchased Goods | 4,500 | 5,280 | 780 | 17.3 | 3,904 |
| Total | 32,930 | 30,840 | −2,090 | −6.3 | 32,330 |

Revised Forecast Sales Revenue Constituent Ratio of High-Purity Chemicals




Semiconductors Shipping Ratio by Country

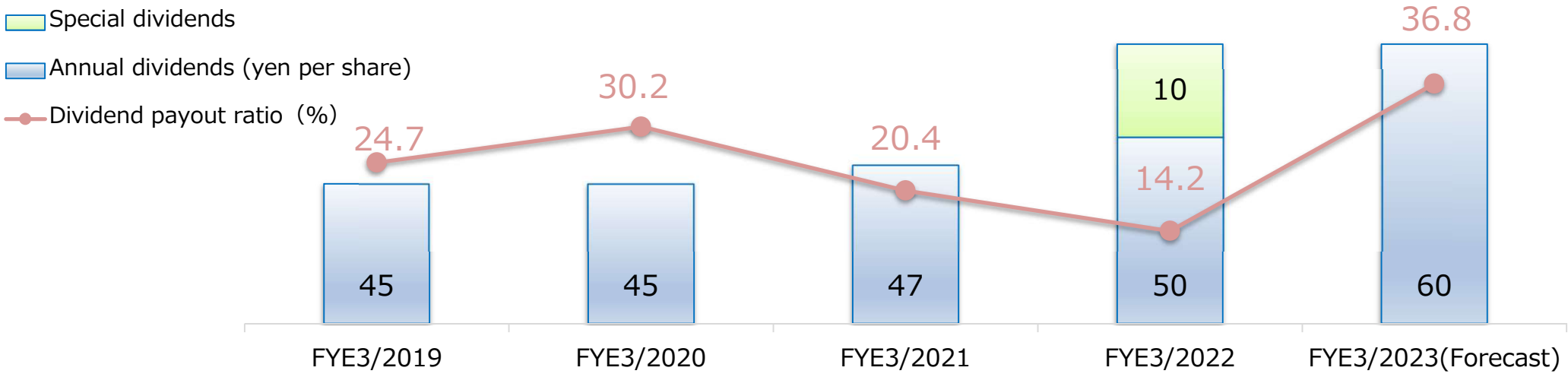


# Shareholder Return

Stella Chemifa's basic policy is to provide stable and continuous dividend payments, giving comprehensive consideration to factors including its financial condition and profit level. Retained earnings will be allocated to capital investment and R&D investment, and will be proactively utilized for future business development to enhance corporate value.

◆ FYE3/2022
- Annual dividend: 60 yen per share (Annual dividends 50yen,Special dividends 10yen)
- The Company repurchased 300,000 of its own shares, worth 840 million yen.

◆ FYE3/2023
- Annual dividend forecast: 60 yen per share
- The Company repurchased 500,000 of its own shares, worth 1,350 million yen from August to November 2022



# Reference Material

(Corporate Profile ・ Introduction of Our Business)

# Corporate Profile

(as of Dec 31, 2022)

| | |
|---|---|
| Corporate Name | STELLA CHEMIFA CORPORATION |
| Head Office | Meiji Yasuda Seimei Osaka Midosuji Bldg. 10F,<br>4-1-1 Fushimi-machi, Chuo-ku, Osaka City, Osaka |
| Founded/Established | February 1916 / February 1944 |
| Capital Fund | 4,829,782,512 yen |
| Representatives | Representative Director, President and Chief Executive Officer: Aki Hashimoto<br>Representative Director, Senior Managing Director<br>(Products Management Group): Kiyonori Saka |
| URL | https://www.stella-chemifa.co.jp/english/ |
| Number of Employees | 287 |
| Sales Department | Osaka Sales Department (Chuo-ku, Osaka city, Osaka)<br>Tokyo Sales Department (Chiyoda-ku, Tokyo) |
| Factory | Sanpo Factory (Sakai-ku, Sakai City, Osaka)<br>Izumi Factory (Izumiotsu City, Osaka)<br>Kitakyushu Factory (Yahatanishi-ku, Kitakyushu City, Fukuoka) |

# Subsidiaries & Associates

## At home (3 companies)

| | | |
|---|---|---|
| Transportation Business | BLUE EXPRESS, Inc. | Sakai-ku, Sakai City, Osaka |
| Other Business | BLUE AUTO TRUST Co., Ltd. | Sakai-ku, Sakai City, Osaka |
| Medical Business | STELLA PHARMA CORPORATION | Chuo-ku, Osaka city, Osaka |

## Abroad ( 6 companies)

| | | |
|---|---|---|
| High-Purity Chemical Business | STELLA CHEMIFA SINGAPORE PTE LTD | Singapore |
| Transportation Business | STELLA EXPRESS (Singapore) PTE LTD | Singapore |
| High-Purity Chemical Business | Blue Express (Shanghai) International Trade Inc. | China |
| Transportation Business | Blue Express (Shanghai) International Freight Forwarding Co., Ltd. | China |
| High-Purity Chemical Business | Zhejiang Blue Star Chemical Co., Ltd. | China |
| High-Purity Chemical Business | Quzhou BDX New Chemical Materials Co., Ltd. | China |

## Manufacture and applications of hydrogen fluoride

$CaF_2$ (Calcium fluoride (Fluorite)) + $H_2SO_4$ (Concentrated sulfuric acid) = **2HF (Hydrogen fluoride)** + $CaSO_4$ (Calcium sulfate)

* There are five main grades of fluorite purity, and for semiconductor applications, high quality fluorite with a purity of 97% or higher is required.

- Calcium sulfate → **Concrete materials, etc.**
- Hydrogen fluoride → **Reaction and refinement using our proprietary technology**
  - **Treatment of surface such as stainless steel**
  - **Raw materials such as alternatives for CFCs**
  - **Etching agent for semiconductor liquid crystals**
  - **Materials for lithium-ion secondary batteries**
  - **Camera lens materials for semiconductor manufacturing equipment**
  - **Reaction catalyst Other products**

# Introduction of Our Business

## High-Purity Chemical Business

| | |
|---|---|
| Semiconductors | ・Manufacture and sale of chemicals for etching and cleaning in the semiconductor and LCD panel manufacturing processes |
| Energy | ・Manufacture and sale of additives to improve the performance of lithium-ion secondary batteries<br>・Manufacture and sale of concentrated boron (boron 10) used for nuclear power and cancer therapy (BNCT) |
| Electronic Materials | ・Manufacture and sale of tantalum production aids for tantalum capacitors<br>・Manufacture and sale of raw materials for camera and stepper lenses<br>・Manufacture and sale of R&D products in the small-quantity production stage<br>・Manufacture and sale of raw materials for production of phosphors and phosphors used for LEDs |
| General Products | ・Manufacture and sale of a range of chemicals and catalysts for the manufacture of pharmaceutical intermediates, etc.<br>・Manufacture and sale of toothpaste additives to prevent tooth decay and gingivitis<br>・Manufacture and sale of other fluorine compounds |
| Industrial Hydrofluoric Acid | ・Manufacture and sale of hydrofluoric anhydride, raw materials for CFCs and fluoropolymers<br>・Manufacture and sale of chemicals used for acid cleaning of stainless steel and slimming of LCD panels |
| Purchased Goods | ・Sales of purchased goods |

# Introduction of Our Business

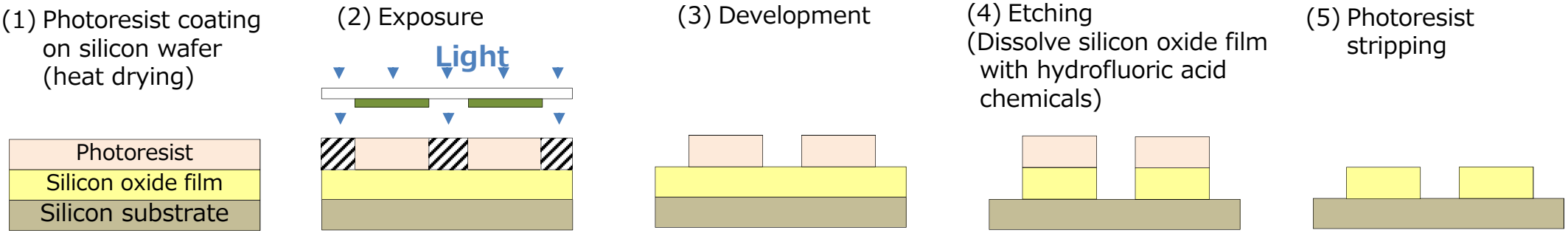
- Semiconductors -

## Ultra-High Purification Technology

- Impurity levels of less than 1 ppt ($1\times10^{-12}$) are controlled by ultra-purification and ultra-cleaning technologies
- Mass production of ultra-pure chemicals for ultra-high integrated circuit

| | |
|---|---|
| Ultra High Purity Hydrofluoric Acid | • Hydrofluoric acid (HF) is the only chemical capable of etching out silicon oxide film<br>• Chemical solutions are indispensable to the semiconductor manufacturing process and require ultra-high purity<br>• In particular, dilute hydrofluoric acid is used in a number of semiconductor processes |
| Ultra High Purity Buffered Hydrofluoric Acid | • Mixed aqueous solution of hydrofluoric acid (HF) and ammonium fluoride ($NH_4F$)<br>• Mainly used in processes such as etching and cleaning of insulation films<br>• Chemicals with etch rates ranging from tens of Å/min to thousands of Å/min can be produced |

## Example of Application (Photolithography Process)



# Introduction of Our Business

- Semiconductors -

## Production capacity of High Purity Hydrofluoric Acid for Semiconductors

### Kitakyushu Factory

Kitakyushu City, Fukuoka

**30,000 t** /year

### Sanpo Factory

Sakai City, Osaka

**65,000 t** /year

### STELLA CHEMIFA SINGAPORE

Singapore

**10,000 t** /year

**105,000 t** /year

*** As a comprehensive manufacturer of fluorine compounds, we use our own technology to do everything from manufacturing to filling.**

# Introduction of Our Business

- Energy -

## Additives

- Additive for electrolytic solution to improve the performance of lithium-ion secondary batteries
- High-temperature endurance・High conductivity・Increased capacity・Low resistance・Flame retardance

Izumi Factory's manufacturing building (Izumiotsu City, Osaka)

## Lithium Hexafluorophosphate

- High-purity electrolytes for lithium-ion secondary batteries

* Manufacture and sale at our affiliate company in China (Quzhou BDX New Chemical Materials Co., Ltd. )

Example of materials used in lithium-ion secondary batteries

| | | | |
|---|---|---|---|
| Additives | Positive and negative electrode | Separator | Current collector |
| Electrolyte | Binder | Protective IC | PTC element |

Quzhou BDX New Chemical Materials Co., Ltd. (China)

# Introduction of Our Business

- Energy -

Enrichment plant
(Izumiotsu City, Osaka)

## Enriched Boron (Boron-10) and its features

- Natural boron is made up of two isotopes, boron-10(20%) and boron-11(80%)
- Developed technology to enrich boron-10 to over 99%
- Established mass production technology of enriched boron for the first time in Japan(2000)
- Boron-10 has an extremely high capacity to absorb neutrons, and further enriching it can increase its ability to absorb neutrons.

## Production capacity

| Products | | Production Capacity |
|---|---|---|
| Enriched Boron | $^{10}B$ | 6,000kg |
| Enriched Boric Acid | $H_3{}^{10}BO_3$ | 36,000kg |
| Enriched Potassium tetrafluoroborate | $K^{10}BF_4$ | 75,000kg |

# Introduction of Our Business

- Energy -

## Applications of Enriched Boron Compounds

- Neutron-absorbing material of spent nuclear fuel transportation and storage containers
- Material of control rods of nuclear reactors and rack material of spent nuclear fuel pools
- Excess reaction control of pressurized-water reactors by dissolving into primary cooling water
- Water source for facilities responding to specific major accidents, etc.
- Raw material for cancer treatment drugs (BNCT: Boron Neutron Capture Therapy)

## Advantages of Using Enriched Boric Acid

(1) Improvement of corrosive environment in nuclear reactors
Required $^{10}B$ concentration can be secured at 1/5 of natural products.
Operation at low concentration is possible, and corrosion in facilities can be reduced.

(2) Reduction of storage costs
Heating and heat retention are required to maintain the dissolution of boric acid water.
Enriched boric acid realizes the reduction in concentration, and reduces the problem of heat retention.
In addition, the storage tank can be made smaller.

(3) More reliable control
In the event of an emergency stop, more reliable control is possible, and since boric acid is harmful to the human body and the environment, the reduction of overall amount of boric acid is an advantage.

# Introduction of Our Business

- General Products -

## Tin Fluoride

- 2017
  The GMP inspection by USFDA for tin fluoride, an active ingredient of OTC anticaries drugs, was completed, and obtained official approval.
- 2018
  Started marketing of “tin fluoride” as a GMP-compliant product.

Izumi Factory's manufacturing building
(Izumiotsu City, Osaka)

<Actions of fluorine on teeth>

- To suppress Streptococcus mutans from producing acid (Cavity prevention)
- To promote tooth remineralization
- To form acid-resistant teeth (to form fluorapatite)

* We expect to see big demand mainly in Europe and the US, where there is strong interest in dental health and beauty.

⇒ We are also developing new applications other than toothpaste (e.g., hoof sterilization)

# Introduction of Our Business

- New Initiatives(Semiconductors) -

## Chemicals for semiconductors

- Development of functional chemical solutions to meet the requirements of manufacturers of DRAM, which is becoming increasingly smaller, and 3D NAND, which is increasingly multilayered, anticipating the time when various advanced technologies are demanded for improving the performance of semiconductors
- Smaller particle sizes will be guaranteed as logic and memory become smaller


Development and proposal of highly functional chemicals

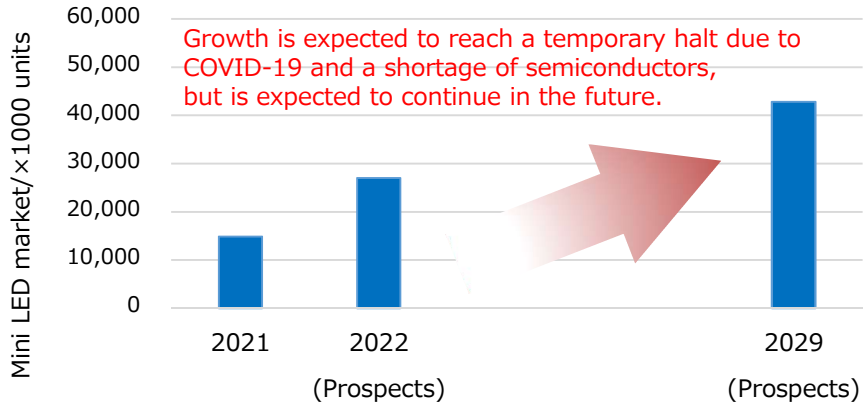
# Introduction of Our Business

- New Initiatives(Electronic Materials1) -

## Phosphor-related Materials

- The iPad Pro 12.9-inch model will feature a mini LED backlight LCD, which is expected to lead to its wider use.
- Research on the use of mini LEDs for automotive display and other applications is attracting further attention.
- Other potential applications include digital signage and lighting.


Forecasts of global market size for mini LED displays




Source: Yano Research Institute
2022 Micro, Mini LED Display Market and Future Prospects

- Development of highly efficient and long-life fluoride phosphor materials using our core technologies
- Customers have adopted some products, and R&D for further expanding adoption will be promoted

| | |
|---|---|
| ➢ Red phosphor materials | LSA-61A |
| ➢ Phosphor materials | NSM, PBFS |
| ➢ Filler for LED sealant | MgF2, CaF2 nanoparticles |

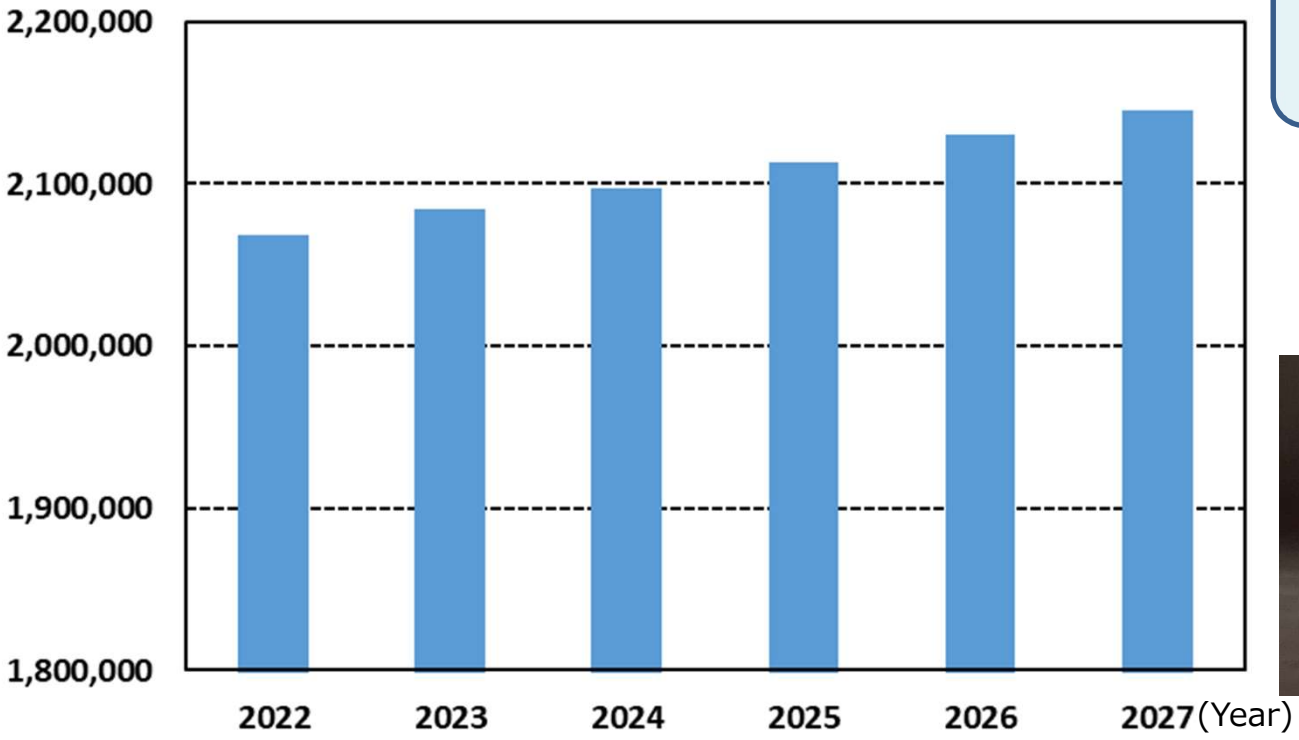
# Introduction of Our Business

- New Initiatives(Electronic Materials2) -

## PCB Materials (Low Dielectric Constant Materials)

- As materials for high-frequency communication devices, used as additives (fillers) to resin and other materials for substrates.

(million yen)




Early 5G → Enhanced 5G → Beyond5G

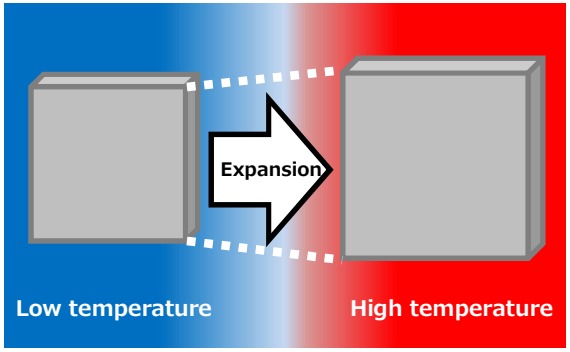
Figure. Trends and forecasts of market size of flexible printed circuit boards
(Source: Fuji Chimera Research Institute)

**Development of high-performance fillers for enhanced 5G or Beyond 5G**

**Low dielectric constant・Low dielectric constant**

**+**

**Higher dispersibility to resin, low thermal expansion, etc.**




**Developed high-performance filler (SHF series)**

# Introduction of Our Business

—New Initiatives (Next Generation Materials Research Lab)

## The Next Generation Materials Research Lab starts operation

On February 3, 2023, we began R&D activities in the new building, the Next Generation Materials Research Lab, located within Sanpo Factory premises (5 stories above ground, total floor area: about 5,000 $m^2$)

### (1) Establishment of an optimal R&D environment

A dry room, environmental testing room, clean room, and other facilities are installed, as well as the latest R&D equipment

- Speeding up the process from R&D to commercialization
- Development of state-of-the-art, high-performance, ultra-pure chemicals for semiconductors
- Acceleration of product development for next-generation battery materials such as all-solid-state batteries
- Creation of new businesses, such as the development of high-performance fluoride materials for new applications and materials in the biotechnology field

### (2) Creation of a workplace environment that supports innovation

Consolidation of R&D departments into open office space

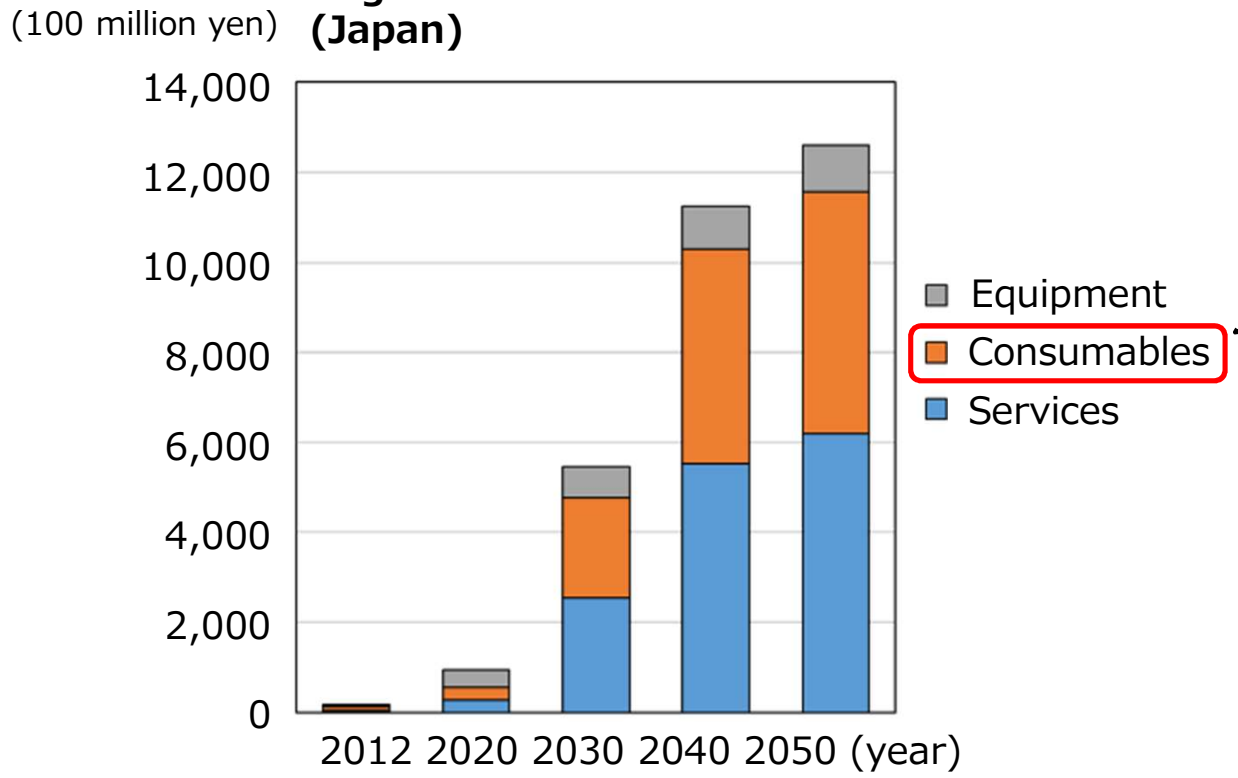
- Communication will be facilitated among researchers and innovation will be promoted by consolidating the existing two bases into one.
- Development of comfortable R&D space

Next Generation Materials Research Lab
(Located within Sanpo factory premises)

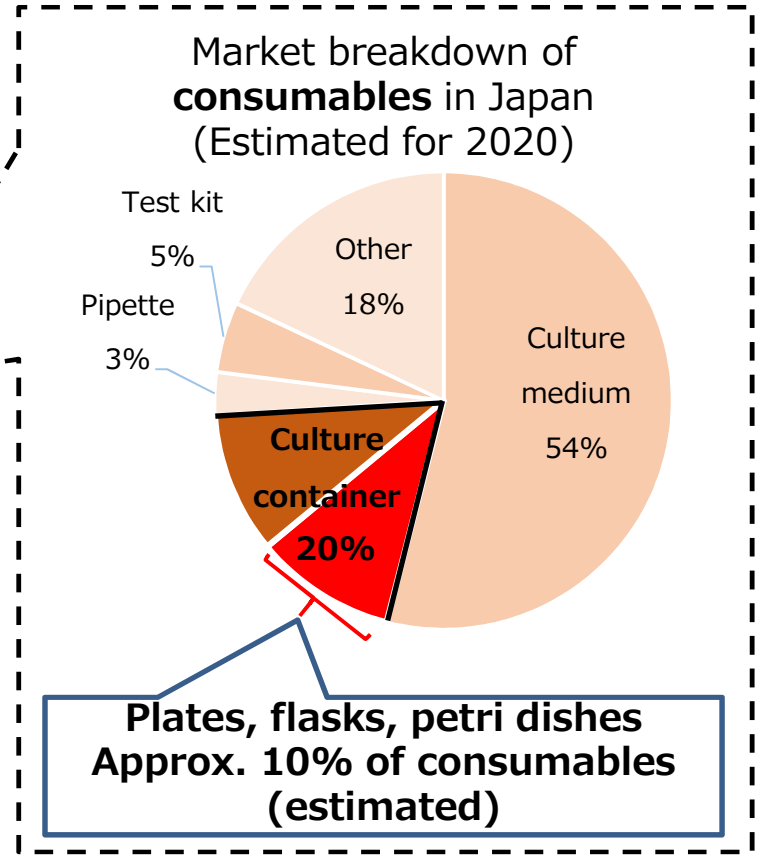
# Introduction of Our Business
## —New Initiatives (Cell Culture Container 1)

**Market size of cell culture containers**

**Future Market Size Forecast for Industries Surrounding Regenerative Medicine (Japan)**




Adapted from the Ministry of Economy, Trade and Industry, "Future Market Size Forecast for Industries Surrounding Regenerative Medicine"




**3.5 billion yen (2020) ->**
**53 billion yen (2050)**

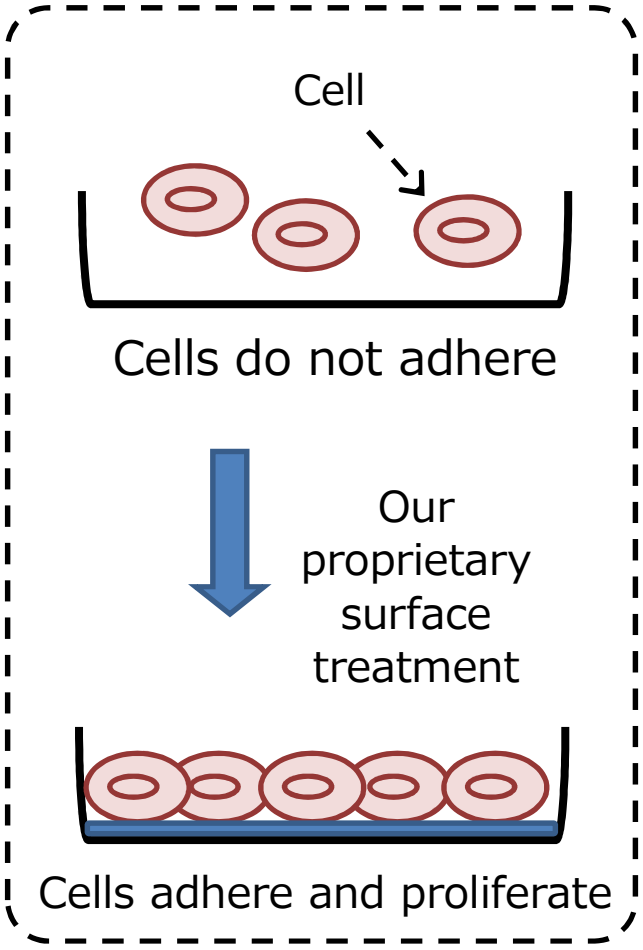
# Introduction of Our Business
## —New Initiatives (Cell Culture Container 2)

Major cell culture containers

Plates

Petri dishes

Flasks




Modification of the bottom surface of resin containers

**Features of the cell culture containers we developed**

(1) Can culture primary culture cells well without special coating treatment.
(2) Better at cell culture under low serum condition than conventional general commercial products.
(3) Can provide a stable culture surface.

● Exhibiting at an exhibition
Exhibition annexed to the 45th Annual Meeting of the Molecular Biology Society of Japan
Period: November 30 to December 2, 2022
Venue: Makuhari Messe

Joint research with the Institute for Biomedical Sciences, Shinshu University (Professor Naoto Saito and Associate Professor Takeshi Uemura)

# Introduction of Our Business

- Other product examples -

(Product information)

## Optical Material-Related

◆Calcium Fluoride ◆Aluminum Fluoride ◆Lithium Fluoride ◆Strontium Fluoride ◆Barium Fluoride
◆Magnesium Fluoride ◆Lead Fluoride

## Reactive Catalyst-Related

◆High Purity Boron Trifluoride ◆Boron Trifluoride Diethyl Ether ◆Boron Trifluoride Dimethyl Ether
◆Boron Trifluoride n-Butyl Ether ◆Boron Trifluoride Tetrahydrofuran ◆Boron Trifluoride Phenol
◆Boron Trifluoride Monoethyl Amine ◆Boron Trifluoride Piperidine ◆Triethylamine 3HF

## Surface Treatment, Alternatives for CFCs-Related

◆Anhydrous Hydrofluoric Acid ◆55% Hydrofluoric Acid

## Nuclear Energy-Related

◆$^{10}$B Enriched Potassium Fluoroborate
◆ $^{10}$B Enriched Boric Acid

## Other Products

◆Fluorosilicic Acid ◆Potassium Fluorosilicate ◆Fluoroboric Acid ◆Tin Fluoroborate
◆Copper Fluoroborate ◆Lead Fluoroborate ◆Zinc Fluoroborate ◆Sodium Fluoroborate
◆Potassium Fluoroborate ◆Ammonium Hydrogenfluoride ◆Sodium Fluoride
◆Potassium Fluoride ◆Ammonium Fluoride ◆Potassium Hexafluorozirconate
◆Potassium Hexafluorotitanate ◆Refined Calcium Fluoride ◆Potassium Hexafluorophosphate

## Newly-Developed Products

◆Detergents Contributing to Increase in Chemical Lifetime ◆Detergents Suppressing Etching of Silicon Nitride Film
◆Detergents Inhibiting Silicon and Polysilicon Damage
◆Battery-Related（ Ionic Liquids, Electrolytes for Sodium Ion Batteries - Sodium Hexafluorophosphate, Additives for Lithium-Ion Batteries,）
◆Various Fluoride Nanoparticles Dispersant (Magnesium, Lithium, Ytterbium, Calcium, CNP-P) ◆Phosphor materials
◆Nuclear Energy Industry ◆5G/6G (Information Communication Systems), Printed Circuit Board
◆Special-Purpose Inorganic Fluorine Compounds ◆Fluorinated Carbon Nano-Tubes

# Introduction of Our Business

くらしのなかの ステラケミファ

* For details, please visit the website.

## 街のなかでもステラケミファ


## 家のなかでもステラケミファ


## 病院のなかでもステラケミファ


## 学校のなかでもステラケミファ

# Introduction of Our Business

- Transportation Business -

(HP URL)

## Transportation Business

BLUE EXPRESS, Inc.

| | |
|---|---|
| Transport | Land transport ・Marine transport・Rail transport |
| Customs Clearance | Customs clearance ・Loading and Unloading |
| Warehousing | Providing multi-functional warehouses fully equipped with the latest systems |
| Container services | Supplying large and pressurized containers that meet ISO specifications, medium-size IBC pressurized containers, as well as IBC containers with UN specifications,and also offering services for cleaning, repairing and leasing the containers |

| Customs clearance sites | Shipping terminals | Overseas Bases |
|---|---|---|
| Ohama Office | Sendai Office | Singapore |
| Osaka Office | Kanto Office | China(Shanghai) |
| Yokohama Office | Yokohama Office | |
| | Shimizu Office | |
| | Nagoya Office | |
| | Ohama Office | |
| | Kobe Office | |
| | Kitakyushu Office | |

# Introduction of Our Business

- Transportation Business -

## Equipment

* Tractors
* Container Semitrailers
  - 20FT chassis
  - 35FT chassis
  - 40FT chassis
  - chassis for container
  - Wings Semitrailers
* Tank Trailer
  - Tank trailers
  - High Pressure Gas Trailers
* 4～15-Ton Wings Trucks
* Temperature Controlled Wings Trucks
* 1～15-Ton Flatbed Bodies
* Container Carrier
* Tank Trucks
  - Dedicated Trucks
  - Tank Trucks for High Pressure Gas
* Tank containers
  - ISO Tank Containers (Teflon Lined)
  - ISO Tank Containers (Reefer)
  - JR Tank Containers (Teflon Lined)
* Portable Tank (Teflon Lined)

## List of vehicle types

# Introduction of Our Business

- Transportation Business -

## TOPICS

### Promoting initiatives focusing on profitability

- Revision of low-price transactions: Revising the rates to ones commensurate with costs and revising the transactions themselves
- Acquisition of new projects: Actively responding to inquiries, identifying potential demand of existing shippers, collaborating with other departments, etc.

(1) Sendai Office relocated on April 26, 2021

Sendai Office

Relocated to the adjacent area of Sendai Port for capturing demand for marine containers

(2) Introduction of top lifts in Kitakyushu Office

Kitakyushu Office

Top lift (April 2022)