

# **ORGANO CORPORATION**

## **Corporate Briefing Material for Investors**

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**Securities Code: 6368**

**October 2023**

# Today's Briefing

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1. Company Overview
2. Organo's Technology and Business Development
3. Organo's Medium- to Long-term Strategy
4. Stock Price Trend and Approach Toward Shareholder Return

# Today's Briefing

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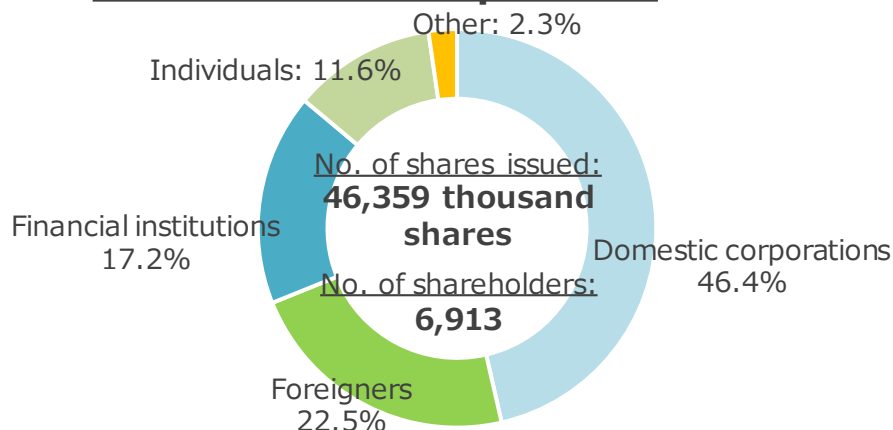
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# Company Overview: Profile and Shareholder Composition

## ■ Company profile

Company name	ORGANO CORPORATION
Head office	1-2-8, Shinsuna, Koto-ku, Tokyo
Established	May 1, 1946
Capital	¥8,225 million
No. of employees	2,506 (consolidated)
Stock exchange listing	Tokyo Stock Exchange Prime Market

## ■ Shareholder composition



## ■ Major shareholders (top ten) (As of March 31, 2023)

Name of shareholder	Number of shares held (Thousands of shares)	Holding ratio (%)
Tosoh Corporation	20,379	44.28
The Master Trust Bank of Japan, Ltd. (Trust Account)	4,190	9.11
Custody Bank of Japan, Ltd. (Trust Account)	2,317	5.03
DZ PRIVATBANK S.A. RE INVESTMENTFONDS	871	1.89
KBC BANK NV – UCITS CLIENTS NON TREATY	870	1.89
STATE STREET BANK AND TRUST COMPANY 505223	506	1.10
Mizuho Bank, Ltd.	464	1.01
VICTORY TRIVALENT INTERNATIONAL SMALL-CAP FUND	395	0.86
BNYMSANV RE BNYMSANVDUBRE LEGAL (AND) GENERAL UCITS ETF PLC	393	0.85
STATE STREET BANK AND TRUST COMPANY 505253	379	0.82

\* The treasury shares (337 thousand shares) are excluded in the calculation of the holding ratio shown above.

# Company Overview:

## Management Philosophy and Vision

### ■ Management Philosophy

Organo serves as a valuable partner company by leveraging its leading-edge technologies cultivated through long experience with water treatment, by contributing to the industries that create the future, and by playing a key role in the development of societal infrastructure.

### ■ Long-term Management Vision

At Organo, we seek to expand our business through high value-added separation and purification as well as analysis and manufacturing technologies, and by providing products and services that promote the creation of value and which resolve the challenges that confront industry and society.

We proactively contribute to a better tomorrow by cultivating people today who will improve upon the way things were done yesterday, as a company where all employees are energetic and passionate about their work.

### ■ Sustainability Policy

Together with its stakeholders, Organo aims to realize a sustainable society for the future and improve our corporate value.



Masayuki Yamada  
Representative Director and President



**E** Leveraging its leading-edge technologies cultivated through long experience with water treatment, Organo provides environmentally-friendly products and services that contribute to water environment conservation and prevention of global warming.

**S** We will respect human rights, diverse values, and individuality while promoting the creation of a workplace where each and every employee can grow and flourish.

**G** We will carry out our corporate activities with integrity and fairness, emphasizing dialogue and cooperation with all stakeholders.

\*Leveraging its leading-edge technologies cultivated through long experience with water treatment refers to our pursuit of water treatment-related separation and purification, analysis, and engineering technologies, and our provision of optimal systems and services that meet the needs of society through a combination of these technologies.

# The Organo Group's Business Structure

## Water Treatment Engineering Business Unit

### | Plant Division



Pure and ultrapure water facilities  
Wastewater treatment and recovery facilities  
Valuable material recovery facilities  
Production processing-related facilities

### | Service Solution Division

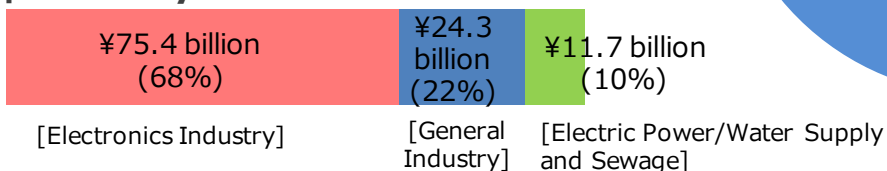


Facilities maintenance  
Operational support services and comprehensive maintenance  
Facility enhancements, renovation and reconditioning  
Contract water treatment

### | Sales by Segment



### | Sales by Market



## Performance Products Business Unit

### | Water Treatment Chemicals Div.



Treatment agents for wastewater, cooling water, cleaning and RO membranes, boiler waters, etc.

### | Standard Water Treatment Equipment and Filters Division



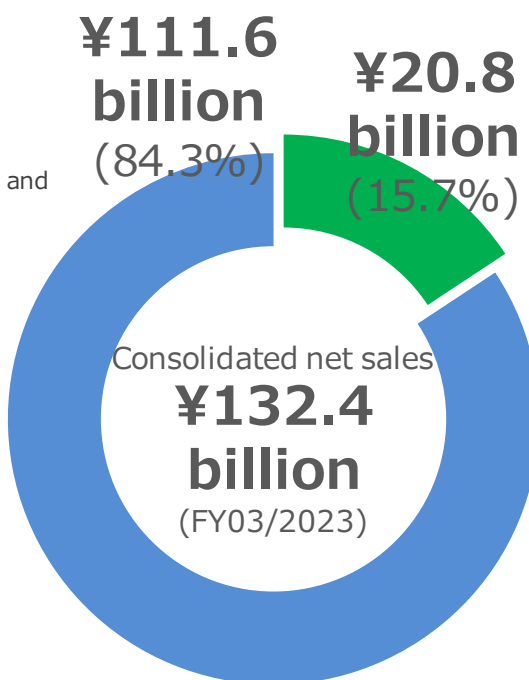
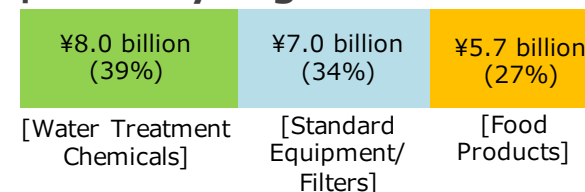
Pure and ultrapure water systems  
Water purification filters

### | Food Products Division



Food additives and processing agents  
Food ingredients

### | Sales by Segment



\*Amounts represent sales for FY03/2023, percentages represent share of total sales.

# Organo Group Network

## Domestic Network

### Iwaki Factory



Factory that assembles large-scale water treatment plant units

### Tsukuba Factory



World-leading ion exchange resin refinery

### Domestic Sales Service Sites



The company has established a nationwide sales and service network.

### R&D Center (Sagamihara)

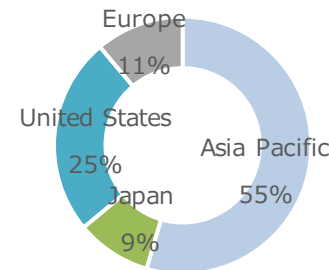


The R&D Center promotes research and development into cutting-edge water treatment and separation and refining technologies.

## Global Network



### Semiconductor production share by region (2023; WSTS survey)



### Established a local subsidiary in the US (Sept. 2021)

To date, the Group has primarily expanded into areas where the electronics industry is prominent, including Japan, China, Taiwan, and Malaysia.

In September 2021, the Group established a US subsidiary based in Arizona in conjunction with customers' factory expansions.



# Organo's History

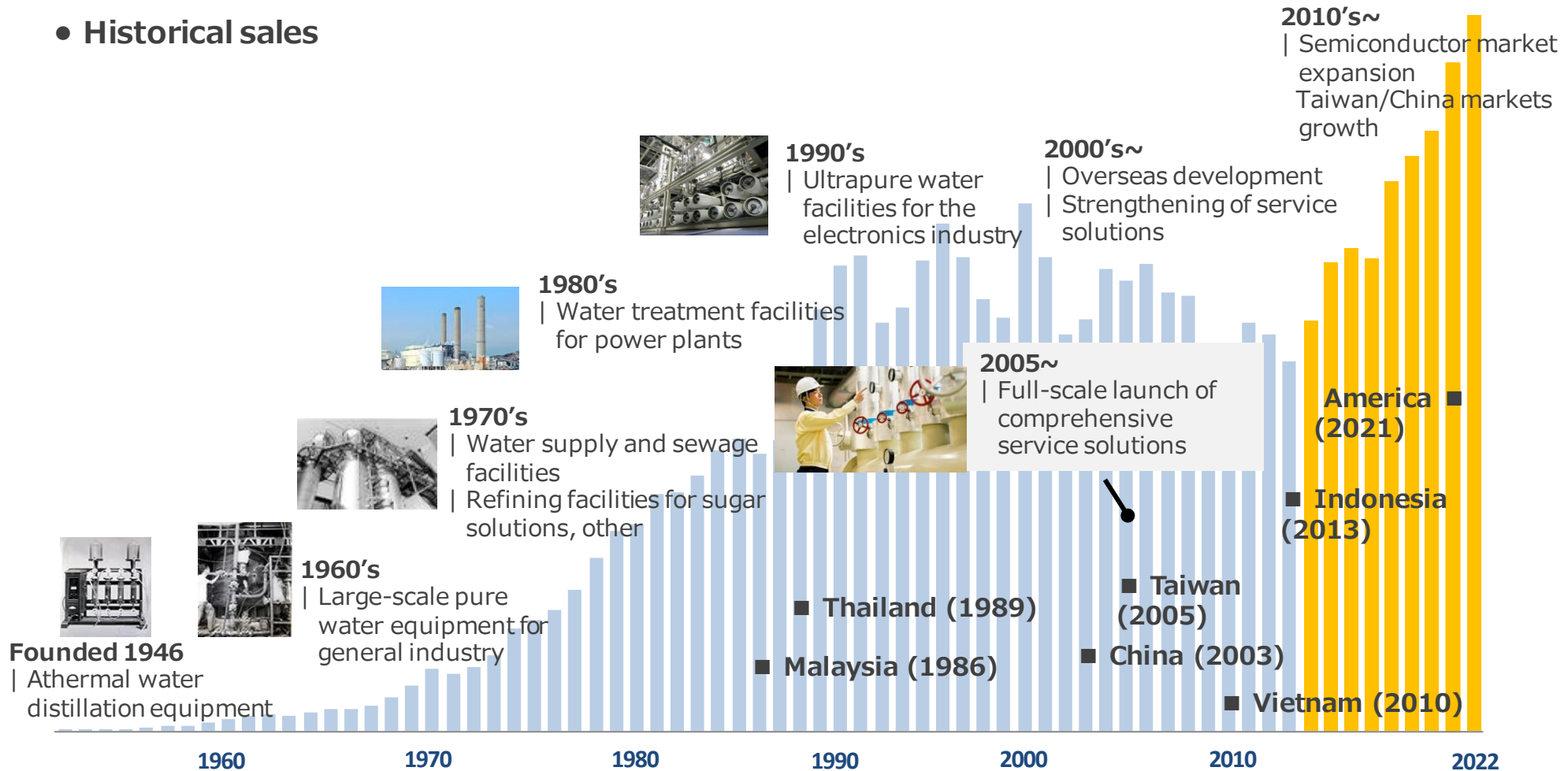
Development

Growth

Evolution

Expansion

## • Historical sales

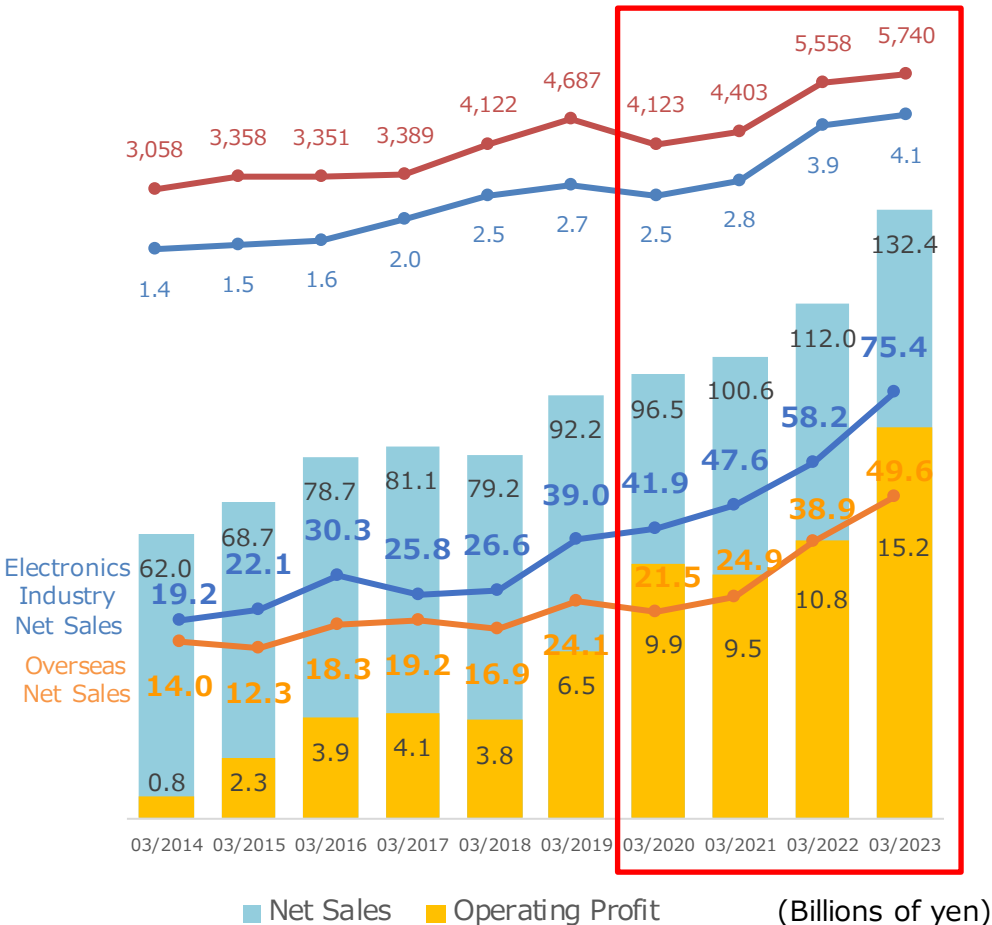




# Performance Growth From Expansion Period to Recent

— WSTE Global Semiconductor Market (hundred million dollars)

— SEAJ semiconductor manufacturing equipment (trillion yen)



## | Growth in the electronics industry

Our performance grew on the back of the growth of the semiconductor market from 2018 onward.

The company expects growth to continue, mainly in the electronics industry, in Japan and overseas.

## | Expanded into Taiwanese and Chinese markets

By region, the Taiwanese and Chinese markets are growing strongly.

Investment in semiconductor areas, such as foundries and memory, is expanding.

The company captured a large share of the Taiwanese market for ultrapure water systems.

## | Profitability improvements

On top of sales growth in Service Solutions and performance products involving relatively high profit margin products, the company succeeded in improving profitability of orders and reducing costs in the Plant Department.





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# Organo's Technology

Separating and purifying necessary substances using systems that combine our various technologies

Input	Main water treatment technologies		Treated water
	Coagulation sedimentation	Separates through sedimentation of sand, soil, and algae	
	Dissolved air flotation	Separate by floating oils, etc.	
	Membrane filtration	Remove suspended solids, viruses, etc.	
	Ion removal	Remove salts and metal ions, etc.	
	Biological treatment	Purify organic substances using the power of microbes	
	Chemical treatment	Control water quality and treatment speed	
			Recovered material
			Waste

Raw water consists of "water and substances"

Combining various technologies to build optimal systems

Using treated water and recovered materials

# What Is Pure and Ultrapure Water?

Removing substances and impurities in water as much as possible provides various benefits, including improved product yields and quality and stable operation of facilities

## ■ Comparison of amount of substances and impurities per 1 L

River water ~1 g/ℓ	Tap water ~300 mg/ℓ (ppm)	Pure water ~3 µg/ℓ (ppb)	Ultrapure water ~3 ng/ℓ (ppt)
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One hundred-millionth that of tap water  
(0.00000003 g)

### (main water treatment technologies)

Coagulation and gravel  
filtration treatment

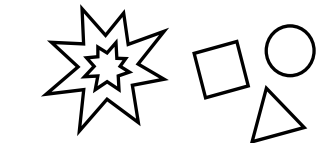
Membrane filtration  
(MF/UF) treatment

Ion exchange resin/RO membrane  
treatment

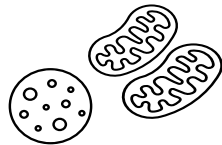
one hundred-thousandth that of tap water  
(0.000003 g)

- Cleaning of semiconductors, electronic parts, etc.
- Water used for thermal and nuclear power plant turbines
- Microanalysis at medical and research institutions, etc.

### (main substances and impurities)

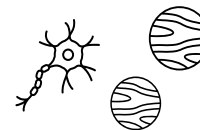


Suspended solids  
(sand and clay)  
~1 mm



Bacteria and algae  
~1 µm

1 µm = 1/1,000 mm

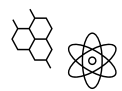


Viruses and fine particles  
~30 nm



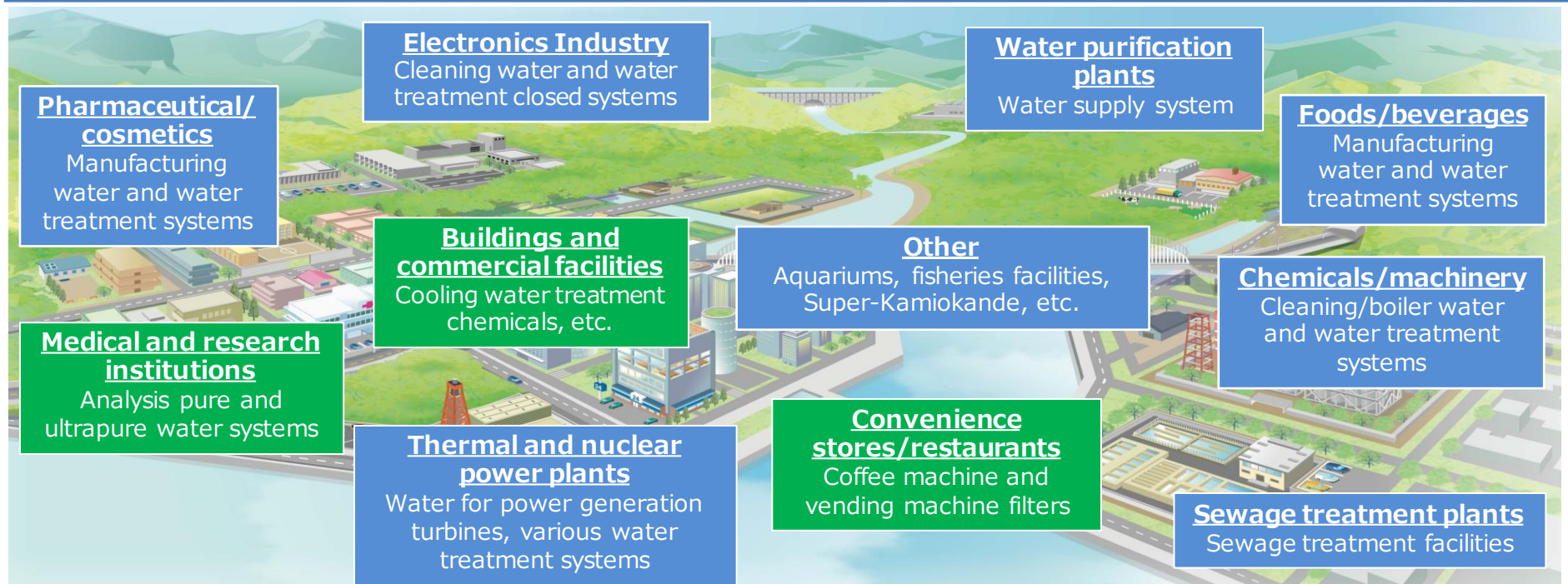
Particles  
~10 nm

1 nm = 1/1,000,000 mm



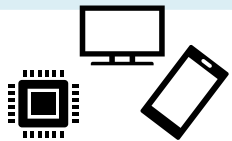
Sugars and  
dissolved salts  
~1 nm

# Organo's Water Treatment Technologies That Support Industry and Daily Life



## Water Treatment Engineering Unit

### Electronics Industry



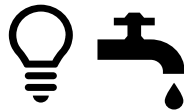
Semiconductors, panels, electronic parts, etc.

### General Industry



Pharmaceuticals and cosmetics, foods and beverages, mechanical and chemical uses, etc.

### Social Infrastructure



Thermal and nuclear power plants, water supply and sewage

## Performance Products Business Unit

### Water Treatment Chemicals



Various manufacturing industries, buildings and commercial facilities

### Standard Equipment and Filters



Medical and research institutions, convenience stores/restaurants

### Food Products



Food/beverages, nursing care, food/health food

# Water Treatment Engineering and Business Cycle

## | R&D and sales activities

- Joint experiments are conducted with customers for projects with cutting-edge technologies or in other cases.
- In some cases, the company presents proposals not only for new projects but also for modification and enhancement of delivered facilities.



## | Service Solutions Business

- **Maintenance services** for delivered facilities **have a high repeat rate.**
- Solution business development, which includes contract service agreements for facilities that we install in customer's plant and operational support services and comprehensive maintenance contracts.

## | Plant Business

### Facility scale

- Investment amount per water treatment facility is scale of **tens of millions of yen to over 10 billion yen.**

### Construction period

- Construction period for large facilities ranges **approx. from 12 to 24 months.**

### Recording of orders and sales

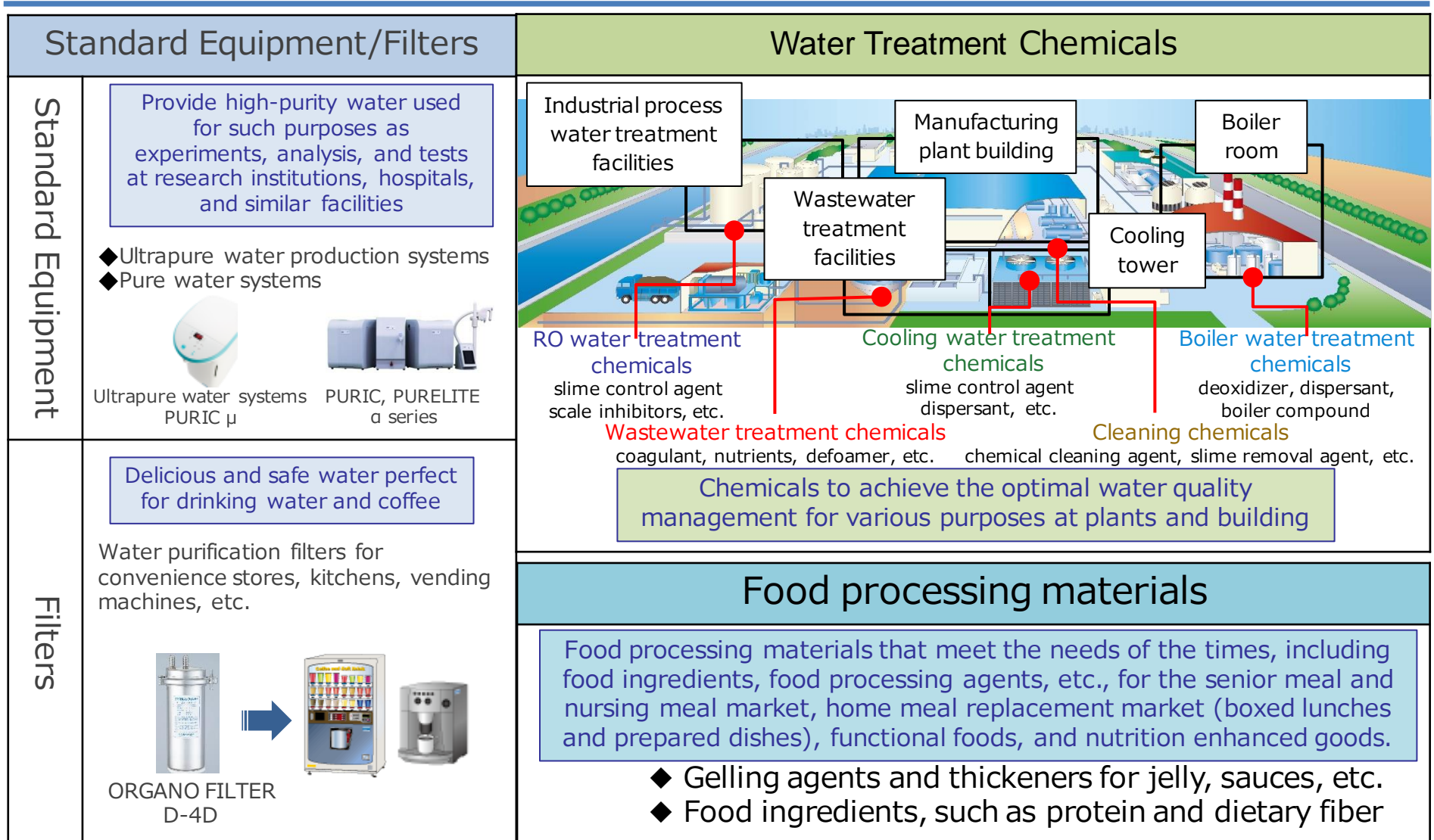
- **Orders** are recorded **at the conclusion of contract.**
- **Sales** are recorded according to **the progress of construction.**

### Profitability management and trends

- Management of risk of certain additional costs by factoring them into construction budgets.
- Profitability is also affected by market trends in capital investment. In the past, profit margins have declined due to intensified competition caused by decreased investment.



# Performance Products Business Unit Business Overview



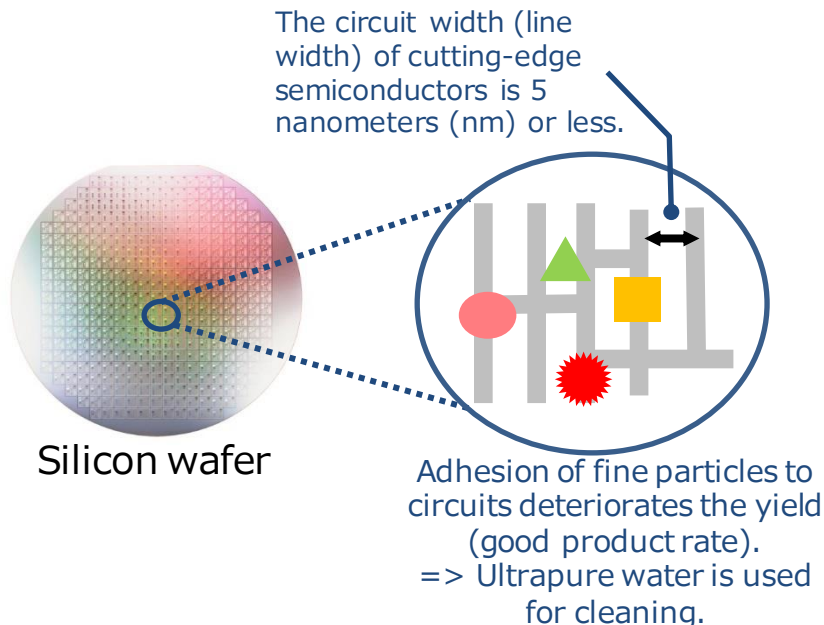


# Semiconductors and Water

Of the many processes required in the semiconductor manufacturing operations, the cleaning process is said to account for about 30%.

Ultrapure water is used in the cleaning process, which is repeated before and after wafer fabrication, film deposition, etching, resist, etc.

Ultrapure water contributes to yield improvement.



What	How much	Excellent technology and value
<b>Impurity concentration</b>	<b>1 ppt or less</b>	The mass concentration is one trillionth of a trillionth. The amount of impurities dissolved in ultrapure water in an Olympic 50 m swimming pool (2,500 m <sup>3</sup> ) is equivalent to a teaspoon (2.5 mg) of an earpick.
<b>Volume of water produced</b>	<b>1,000 ton/hour</b>	Large-capacity high-performance pumps and large-diameter piping are used. Filled an Olympic 50 m swimming pool (2,500 m <sup>3</sup> ) in 2.5 hours.
<b>Water recovery rate</b>	<b>80%</b>	Semiconductor plants use a large amount of water for cleaning and other purposes, but at cutting-edge plants, more than 80% of water is recovered and reused, utilizing technology that not only recycles water but also recovers valuables contained in wastewater.

Organo provides ultrapure water supply facilities for cleaning wafers and chips, treatment facilities to render wastewater from cleaning and other manufacturing processes harmless and reduce waste, water recycling systems, and systems to recover and recycle fluorine, rare metals, and other valuable materials from wastewater.

# Supplying Ultrapure Water to Super-Kamiokande

## Ultrapure Water Production System

A "water telescope" located 1,000 meters underground

Super-Kamiokande serves as a colossal water telescope capable of collecting data from the cosmos, shedding light on aspects such as traces of the Big Bang and the origins of the Milky Way. The facility consistently maintains a reservoir of 50,000 tons of ultrapure water, generated through Organo's ultrapure water production systems.



Super-Kamiokande's use of ultrapure water entirely devoid of contaminants is imperative for two key reasons:

- [1] Contaminants must be eliminated to the greatest extent possible, with a concentration of less than 100 contaminants measuring ten-thousandth of a millimeter or larger per 1 cc. This rigorous purification is necessary to prevent any attenuation of light within the water, ensuring that photomultiplier tubes can effectively detect Cerenkov light generated within the water.
- [2] Naturally occurring radioactive elements, such as uranium and radium, are typically present in substances. It is crucial to meticulously eliminate these radioactive elements, with no more than 50 uranium atoms per 1 cc to prevent interference with the observation of solar neutrinos and other elementary particles.

The equipment used in this process is capable of filling the 50,000-ton Super-Kamiokande test water tank with ultrapure water within two months. Also, once the water tank is filled with pure water, the equipment conducts a monthly re-purification process to further enhance its purity.

R&D: Institute for Cosmic Ray Research, the University of Tokyo  
Organo Corporation

**A B**  
Low-radon-concentration air production system

Air containing a concentration of radon one-millionth of the normal level is directed into the Super-Kamiokande's above-ground test water tank, preventing radon gas found in the air from dissolving into the water.

Baby compressor

Air tank

Activated carbon filter

**B**

Dehumidifier and CO<sub>2</sub> removal equipment

**5**

Cartridge polisher

**6**

UF membrane equipment

Eliminates contaminants that are one-millionth of a millimeter or larger (corresponds to a molecular weight of approximately 10,000)

Ion exchange equipment designed for meticulous purification of water, effectively eliminating nearly all ions

**4**

Vacuum degasifier equipment

Removes gases such as radon and oxygen

**3**

UV light-based sterilization equipment

Ultraviolet light eliminates bacteria, such as E. coli

**5**

Cartridge polisher

**4**

Vacuum degasifier tower

**3**

UV sterilization equipment

**2**

Ion exchange resin tower

**1**

RO (reverse osmosis) membrane equipment

**1**

RO unit

**1**

Secondary high-pressure pump

**1**

Return water filter

**1**

Primary safety filter

**1**

Secondary safety filter

**1**

UF condensation water tank

**1**

Purified water tank

**1**

Power and control panel

**1**

Super-Kamiokande

**1**

Source water

**1**

Underground water from Kamioka Mine starts out extremely pure

**1**

(Circulation time = 70 tons/hour)

**1**

1,000 meters underground, holds 50,000 tons of ultrapure water

**1**

Eliminates a range of ions, including calcium and uranium ions

**1**

Eliminates substances such as ions, bacteria, and contaminants measuring one ten-millionth of a millimeter or larger

**1**

Eliminates contaminants that are one-millionth of a millimeter or larger (corresponds to a molecular weight of approximately 10,000)

**1**

Ion exchange equipment designed for meticulous purification of water, effectively eliminating nearly all ions

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Removes gases such as radon and oxygen

**1**

Ultraviolet light eliminates bacteria, such as E. coli

**1**

Cartridge polisher

**1**

Vacuum degasifier tower

**1**

UV sterilization equipment

**1**

Ion exchange resin tower

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Cartridge polisher

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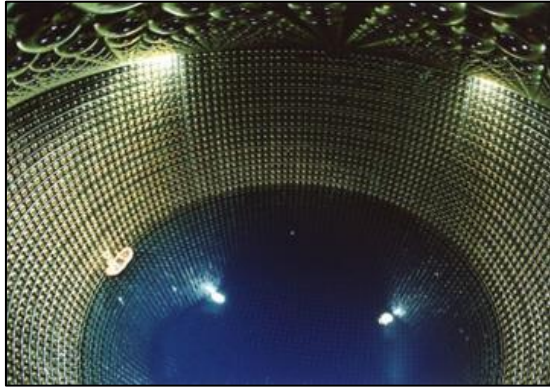
Vacuum degasifier tower

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UV sterilization equipment

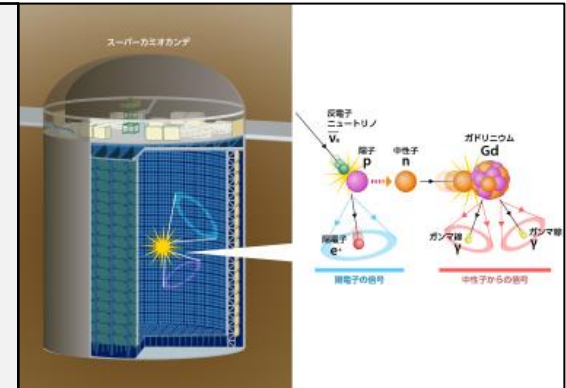
**1**

# Ultrapure Water Systems Also Contribute to the Observation of Neutrinos



We supply 50,000 t of ultrapure water to Super-Kamiokande, the world's largest water Cherenkov detector. Masatoshi Koshiba and Takaaki Kajita won the Nobel prize in 2002 and 2015, respectively, for their research on neutrinos.

In 2020, we succeeded in removing ions while retaining  $\text{Gd}^{3+}$  and  $\text{SO}_4^{2-}$  using special ion exchange resin jointly developed by the University of Tokyo and Organo. This contributed to increasing the sensitivity of neutrino observations with the introduction of Gadolinium.



Source: website created by Kamioka Observatory, ICRR, the University of Tokyo

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# Medium- to Long-term Management Plan “ORGANO 2030”

## Aspire to be a Global Partner Company

- Become a global leader of the water treatment solutions for semiconductors
- Expand our range of chemicals and functional materials to be the customer's first choice
- Achieve sustainability goals

### Long-term Plan (~2030)

Net sales: ¥200.0 billion  
Operating profit: ¥30.0 billion  
(%): 15%  
Maintain a stable ROE of 12% or more

### Medium-term Management Plan (~03/2026)

Net sales: ¥170.0 billion  
Operating profit: ¥18.5 billion  
(%): 10.9%  
ROE: 12.6%

## Expand into new businesses and regions of operation

- Expand business in the U.S. market
- Increase overseas development in Performance Products including chemicals
- Enhance and deploy new service solutions

## Streamline operations and create new business opportunities

- Increase efficiency and capacity in engineering operations
- Enhance development of new water treatment, separation and purification technologies, service solutions, etc.
- Expand the business structure in each country and region

### Next Management Plan (~03/2024)

Net sales: ¥150.0 billion  
Operating profit: ¥16.0 billion  
(%): 10.7%  
ROE: 12.6%

# Medium-term Management Plan and Sustainability Goals and Material Issues

## Medium-term Management Plan

### Focused Areas

#### Electronics Industry

Expand efforts to develop business globally, including the US, Taiwanese and Chinese markets

#### Water Treatment Chemicals

Reinforce value chain and overseas development

#### Functional Materials

Reinforce supply chain and enhance differentiated merchandise

### Establish and Expand Systems

#### Engineering

Promote automation and enhance efficiency  
Increase capacity

#### Service Solutions

Enhance overseas development and service menu

#### R&D

Reinforce development foundation and create new businesses

## Sustainability Goals and Material Issues

### Achieve Continuous Business Growth

Contribute to a sustainable global environment

Provide high-value-added products and services by leveraging technological capabilities

### Build a Business Foundation

Strengthen governance and ensure compliance

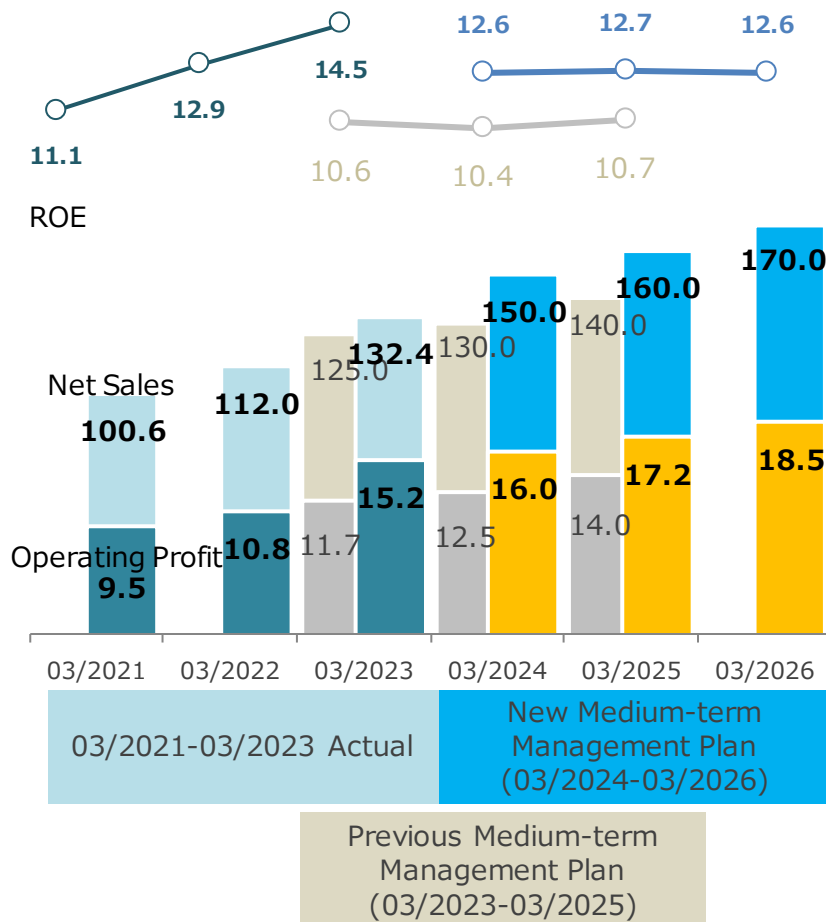
Create a workplace where diverse human resources can play an active and rewarding role

Strengthen supply chain management

# Medium-term Management Plan: Performance Targets

(Billions of yen, %)

## Net Sales, Operating Profit, and ROE Trends



- **Expansion of sales scale**

Expand sales to ¥170.0 billion, mainly in the electronics industry, on the back of order backlog at a high level. Strengthen both Service Solutions and Performance Products businesses as stable revenue sources.

- **Investment for growth and securing stable revenues**

Balance expanding capacity and investment for growth with securing stable revenues.

Record a stable ROE of 12% or more.

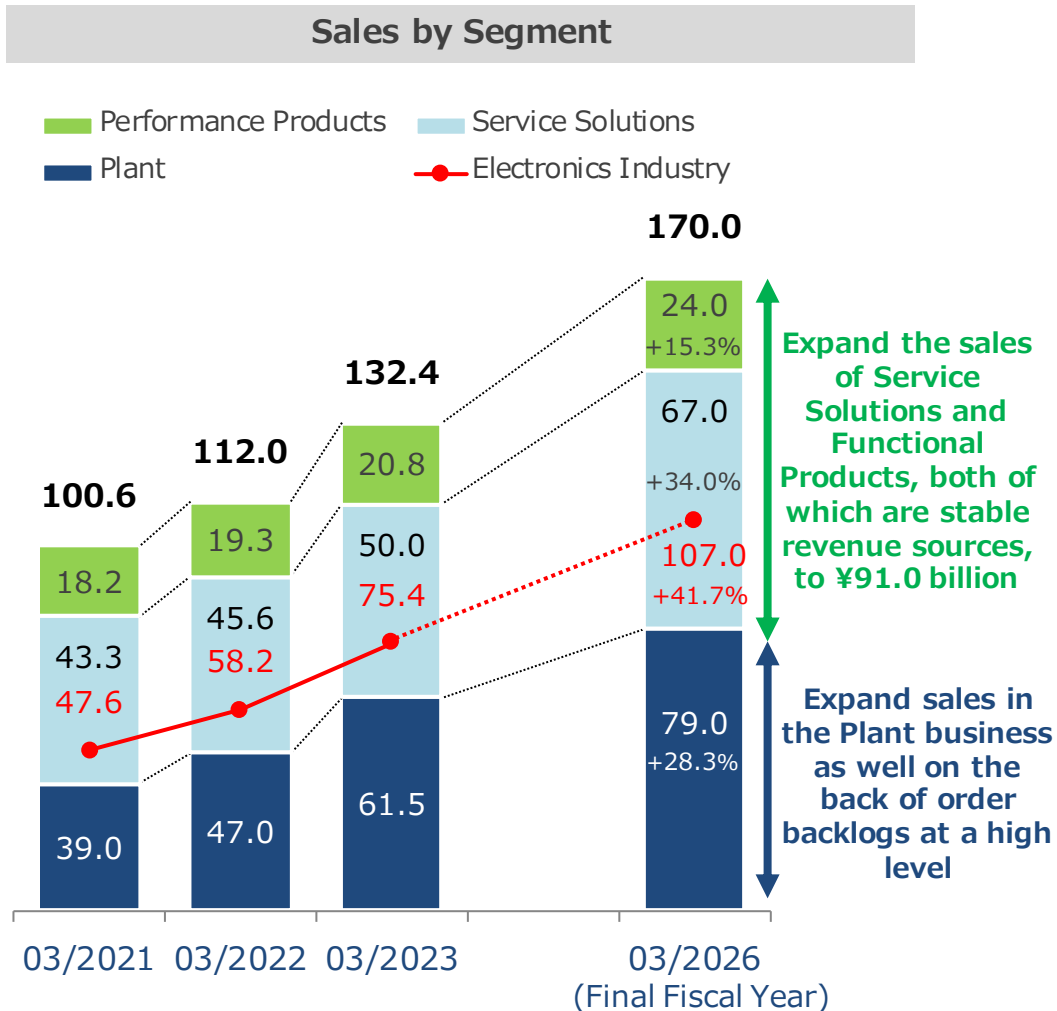
- **Initiatives for Sustainability Goals**

Achieve sustainability goals to continue business growth and build a business foundation



# Medium-term Management Plan: Sales by Segment

(Billions of yen, %)



## • Electronics Industry

Expand both Plant and Service Solutions, mainly in the electronics industry.

## • Plant

Deliver large-scale facilities for semiconductors in Japan, Taiwan, China, the U.S., and other markets.

## • Service Solutions

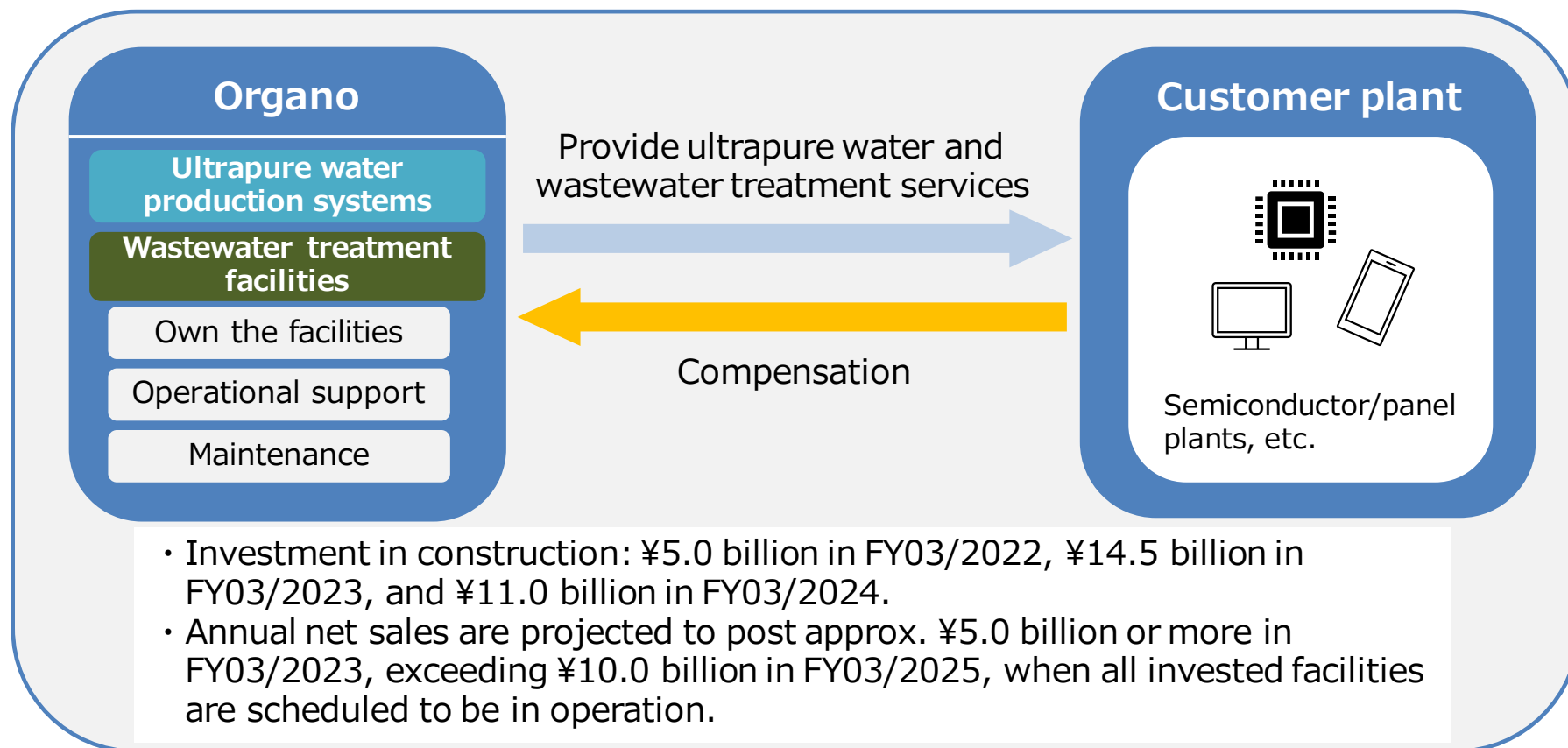
Expand facility-owned services. Strengthen digital Service Solutions that include automatic operation and remote monitoring of facilities.

## • Performance Products

Strengthen overseas sales expansion centered on water treatment chemicals and small equipment.

# Expand Service Solutions: Facility-owned Services

**Install water treatment facilities as our own facilities in customer plants**  
**Provide operational support and maintenance services and receive compensation for water treatment services**



# Expand Service Solutions: Data Utilization

**Reinforce service solutions that use digital technology**  
**Provide customers the value of lower costs, greater energy efficiency, less labor, decarbonization, etc.**

## Develop Ortopia J remote monitoring services



Strong sales of the ORTOPIA J remote monitoring services for water supply and sewage facilities, and robust expansion into the electronics industry and general industry. Work to expand proposal-based service solutions, such as improved facilities and greater overall and energy efficiency based on use of operating data.

## Water heat utilization system that is energy efficient and contributes to decarbonization using the heat of water



Uses heat pump technology to transform the heat of water from factories and other facilities into energy. Reduces power consumption and CO<sub>2</sub> emissions more than 50%.

\* The Energy Conservation Center, Japan Chairman's Award of the FY2016 Energy Conservation Grand Prize

## Cooling water treatment DX-based energy-saving service solution ORSMART CW



Achieve continued energy efficiency and stable operation through the monitoring of cooling water quality and heat exchanger fouling index and the optimal use of chemicals by leveraging AI.

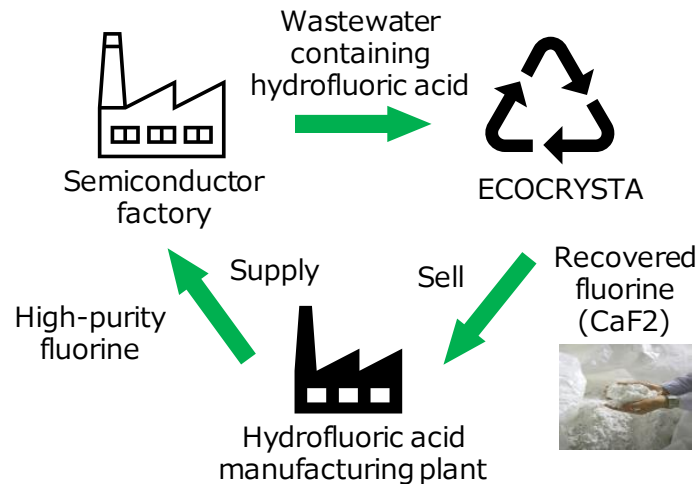
\* Director-General Prize of the Agency of Natural Resources and Energy of the FY2022 Energy Conservation Grand Prize

# Expand Service Solutions: Contribute to Sustainability

## Technology for recovering hydrofluoric acid from wastewater ECOCRYSTA

**Recovers hydrofluoric acid** used in semiconductor manufacturing **from factory wastewater.**

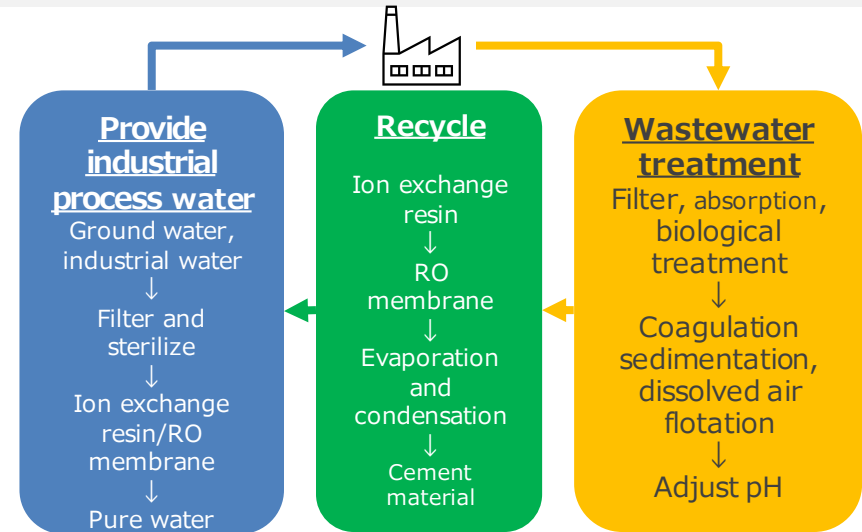
It is then refined as high-purity pellets and recycled as raw material for hydrofluoric acid.



Japan Environmental Management Association for Industry  
Fiscal 2014  
Resource Recycling Technology/System Award Minister of  
Economy, Trade, and Industry Prize

## Circulating water resource recycling system Closed System

Separate collection and recycling of wastewater from factories, **reducing wastewater other than rainwater to zero.** Impurities are dehydrated and dried, and then reused as raw materials for cement.



Awarded 24th (March 2022) Minister of Economy, Trade and Industry Prize for Japan Water Grand Prize  
Delivered wastewater recovery and treatment equipment to Oita Canon Materials Inc.

(quote: Oita Canon Materials Water Recycling Activities  
<https://oita.canon/env/water.html>)

# Business Domain Expansion: Develop Separation and Purification Technologies for Substances Other than Water

What is separation and purification technologies?

Purify to a high degree useful components by removing unnecessary components through separation

		Ion exchange	Filtration	Absorption	Coagulation sedimentation	Deaeration	Dehydration
Water	Ultrapure water for semiconductors	●	●	●	●	●	
	Industrial process water and wastewater treatment	●	●	●	●	●	●
	Wastewater recovery		●	●	●		●
Non-water	Sugar and alcohol refinement	●		●			
	Lithium-ion battery material refinement	●	●				●

Application of existing technologies

- Purify and recycle solvent used for manufacturing cathode material of lithium-ion batteries (LiB).



	Distillation method (Traditional methods)	Ion exchange + membrane separation (Our method) (filtration)
Use of heat	Large	Little
Purification location	Outside plants (send outside plants)	Inside plant (do not send outside)

Contribute to **reduction in CO<sub>2</sub> emissions** and **reduce use of resources**

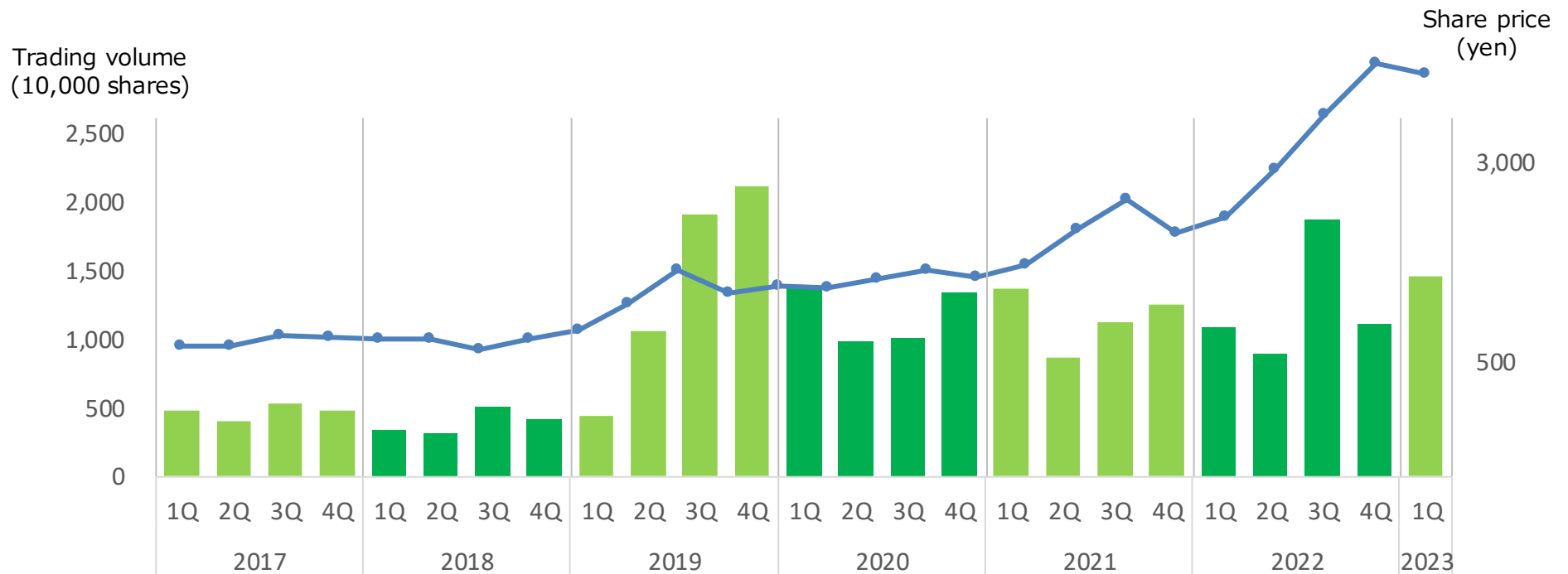
# Today's Briefing

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1. Company Overview
2. Organo's Technology and Business Development
3. Organo's Medium- to Long-term Strategy
4. Stock Price Trend and Approach Toward Shareholder Return

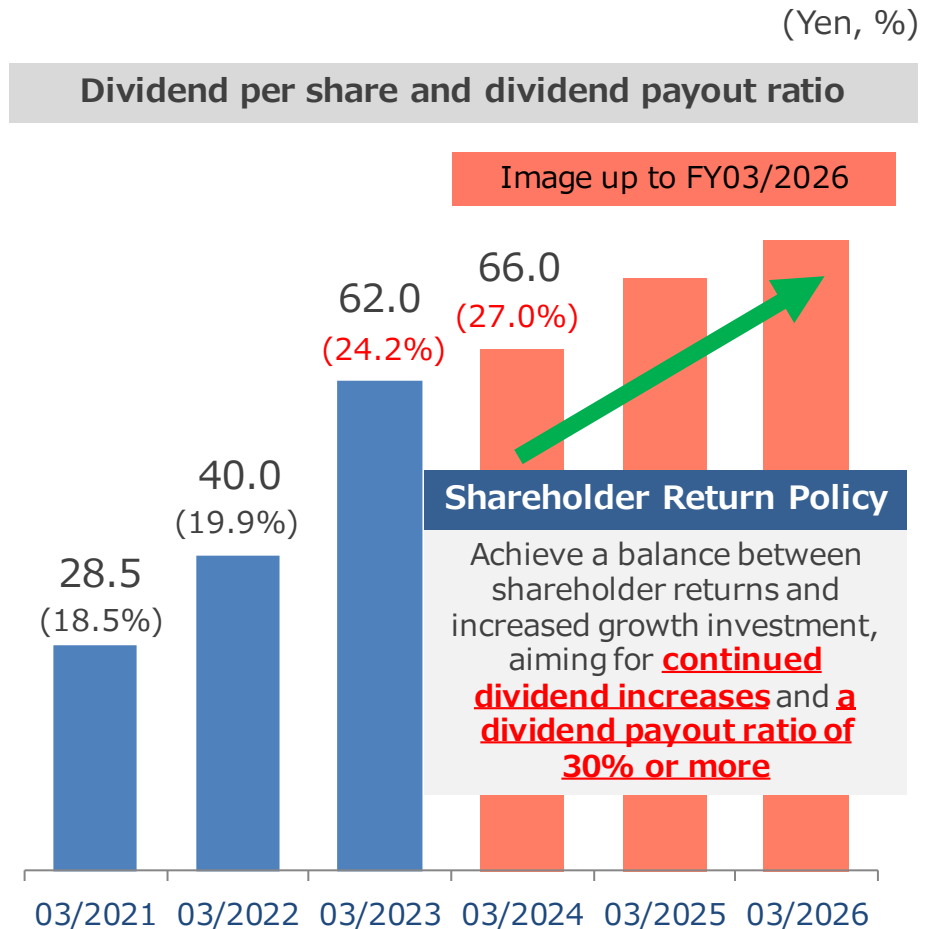
# Share Price Trend

Share price	Share in trading unit	Investment amount	Market
¥4,115 (as of July 31, 2023)	100 shares	¥411,500	Tokyo Stock Exchange Prime Market
Conducted 1-4 stock split dated October 1, 2022			





# Shareholder Return Policy



The dividend amounts in the graph are based on the (Final Fiscal Year) post-share-split effective October 1, 2022.

- **Dividends increased as a result of improved business performance.**

In FY03/2023, the company upwardly revised the dividends for the first half and the full year as a result of the improved performance.

The annual dividend per share increased 55% year-on-year to ¥62 per share.

The dividend payout ratio of 25%, the target of the previous Medium-Term Management Plan, is expected to be achieved in FY03/2024.

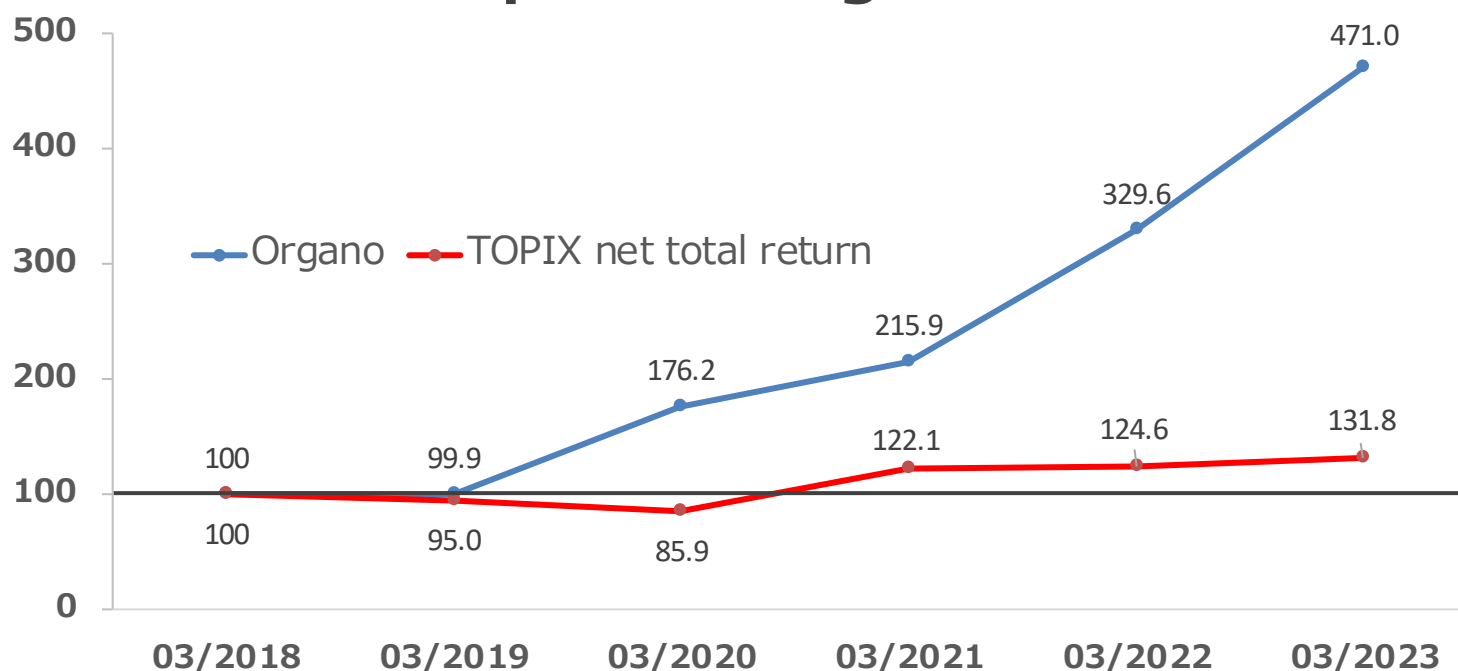
- **Shareholder return policy**

At present, shareholder returns are considered to be centered on dividends.

Achieve a balance between shareholder returns and increased growth investment, aiming for continued dividend increases and a dividend payout ratio of 30% or more.

# Organo Total Shareholder Return (TSR)

**We achieve a return that dramatically outperforms the TOPIX as a result of continued increase in share price and growth in dividends.**



\* Index of closing share price and annual dividend for each fiscal year (cumulative amount since FY03/2019) with share price as of the end of March 2018 as 100.

# External Recognition and Index Inclusion

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**JPX-NIKKEI 400**



**JPX-NIKKEI Mid Small**

ORGANO Group was selected as a constituent stock of the JPX-Nikkei Index 400, the JPX-Nikkei Mid and Small Cap Index, a stock index calculated by Nikkei Inc. and JPX Market Innovation & Research, Inc.



**FTSE Blossom  
Japan Sector  
Relative Index**



We have also been chosen for inclusion in indexes such as Russell/Nomura Prime, S&P/JPX Carbon Efficient Index, Nomura RAFI, and FTSE Blossom Japan Sector Relative. Further, our stock was also evaluated as a benchmark for ESG investing and passive management.

# Coverage by Overseas Media

## Newsweek International (June 23, 2023 issue)



### ORGANO: Japan's Water Treatment Engineering Company Eyes Global Expansion

A leading Japanese water treatment engineering company with 70 years of experience, Organo Corporation is leveraging advanced technologies to expand its solutions for the semiconductor, pharma, energy and environmental sectors worldwide.

"We believe that our technologies, particularly as they benefit the semiconductor industry, have advantages in the U.S. that will enable the same growth there we have seen in the Asian region."

Masayuki Yamada, President, Organo Corporation

Organo Corporation was established during the initial founding of Japan's industrial sector shortly after World War II. Since then, through his growth in tandem with Japanese industry to become a comprehensive water treatment engineering company developing purification solutions used in various fields such as semiconductor, energy, pharmaceuticals and food. Organo's business in recent decades was the establishment of its own integrated R&D center in 1986, which has served as the bedrock for its innovation for more than 35 years. "Along with rapid economic growth in Japan after WWII, there was a huge demand for domestic water. Organo responded to this by developing technology that helped us achieve an impressive track record," says Masayuki Yamada, President of Organo Corporation. Technology such as ion exchange resin combined with the data and know-how we have accumulated over the years has enabled us to create a variety of water purification solutions to meet the needs of our customers.

These solutions include UltraPure Water (UPW) systems for semiconductor manufacturing, which help to remove impurities in the manufacturing process, concentrating on systems for power plants, which protect clean water from common children and purification water systems for the pharmaceutical industry. In the semiconductor industry, manufacturing not only of fuel components, but throughout the manufacturing process has created demand for a high level of purity control in order to remove microscopic impurities between production stages. Purity control is critical to ensure semiconductor quality and performance, and Organo's UPW systems have proven reliable in production processes for modern semiconductor manufacturers.

"Not only do we provide equipment capable of stable production of UPW, but our ability to remove small number of specific or extremely small particles contributes significantly to yield improvement in semiconductor manufacturing," Mr. Yamada reveals. "It's our independently developed analysis techniques that help our systems detect impurities at concentrations lower than 100 parts per billion, which are currently available in the market. By identifying water quality issues early, our customers can prevent manufacturing problems without the need to profit."

All this means that Organo is well positioned to take advantage of the U.S. semiconductor industry boom thanks to major investments and the recently passed CHIPS and Science Act, which will provide \$52 billion for semiconductor R&D, manufacturing and educational laboratories. This already established foothold, an Active office that has provided solutions for a Japanese semiconductor customer, and will continue with operation and maintenance there while creating a water not for opportunities with other semiconductor manufacturers in the U.S.

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Organo stands to make a positive environmental impact in Organic



Organo's UPW system in a data center

As Mr. Yamada explains, "Our technology for recycling MPP (Methyl Propylamine) contributes significantly to carbon neutrality," says Mr. Yamada. "In addition, we are exploring purification technology for organic solvents other than water." He adds that Organo's innovation technology for sewage treatment facilities also has potential for success.

After years of progress and innovation, Organo now prepares to grow even more as it pursues its ambitious goal to lead cooperation with a laser focus on sustainability.

Organo's leader who believes in its vision and the limitless potential of its water treatment engineering technologies to join its journey.

"We are not just a strong ally in the semiconductor industry," Mr. Yamada stresses. "We are also looking at pharmaceuticals, especially the growing industry of biomanufacturing. Organo has extensive experience in this field in areas such as validation which

CONTRIBUTED BY THE WORLD FOLIO

www.organo.co.jp

www.organo.co.jp

## TIME (July 23, 2023 issue)



### Pure Water, Pure Technology

A successful Japanese water treatment engineering company supplies the technology and wastewater recycling systems.



Organo's UPW system in a data center

Organo stands to make a positive environmental impact in Organic

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technology. Many pharmaceutical and biotechnology manufacturing systems require ultra-pure water for production, as well as research and development (R&D). The company sees this as another area with significant growth potential.

With water being integral to its operations, it's perhaps no surprise that sustainability is a crucial concern for the company. Regarding industrial usage, the company's wastewater systems have additional benefits beyond simply producing clean and purified water. Organo's technology allows for reclaiming materials such as semiconductor byproducts from the manufacturing process, which helps reduce waste and improve efficiency. Reclaiming materials also includes recycling materials from liquids other than water and refining organic solvents used in electronics manufacturing. "Recycling is currently a buzzword, as businesses are looking to save energy, resources, and labor," said Yamada. "We are developing state-of-the-art systems for recovering valuable materials from wastewater from the semiconductor manufacturing process, such as silicon fluoride," he said.

The company's strategy is based on innovation at its new R&D center in Singapore, and its recent expansion, building on its success in Taiwan and China for an increased presence in the United States while also targeting India. "Expansion of our presence in international markets is our primary goal, while the new R&D facilities started operations last year to further strengthen our purification technology and meet customer future needs," said Yamada.

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<https://www.theworldfolio.com/interviews/watertight-technology-for-global-industry/5721/>

[https://partners.time.com/partners/global-kigyo/pure-water-pure-technology/?prx\\_t=zH8IAAAAAAmp8PA&utm\\_campaign=185027&prx\\_ro=s](https://partners.time.com/partners/global-kigyo/pure-water-pure-technology/?prx_t=zH8IAAAAAAmp8PA&utm_campaign=185027&prx_ro=s)

# Thank you for your attention.

Website

<https://www.organo.co.jp/english>

This material was created to introduce the company. The figure of plans, forecasts, and similar items in this document regarding business are based on information available at the time of preparation and are therefore subject to risk and uncertainty. Actual performance may differ from these projections.