# Supplementary Materials of Financial Results for Q2 FY2024

Takuma Co., Ltd.November 8, 2024



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- 1. Overview of Q2 FY2024 (Ending 3/2025) Financial Results
- 2. Financial Forecast for FY2024 (Ending 3/2025)
- 3. Notice Regarding Reduction of Cross-shareholdings (Announced on November 8, 2024)

Appendix

- Company outline
- 14th Medium-Term Management Plan;
  - Outline, Business Strategies, Strengthening the Management Foundation, Capital Policy
- Situation by Segment
- Terminology

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### 1. Overview of Q2 FY2024 (Ending 3/2025) Financial Results

2. Financial Forecast for FY2024 (Ending 3/2025)

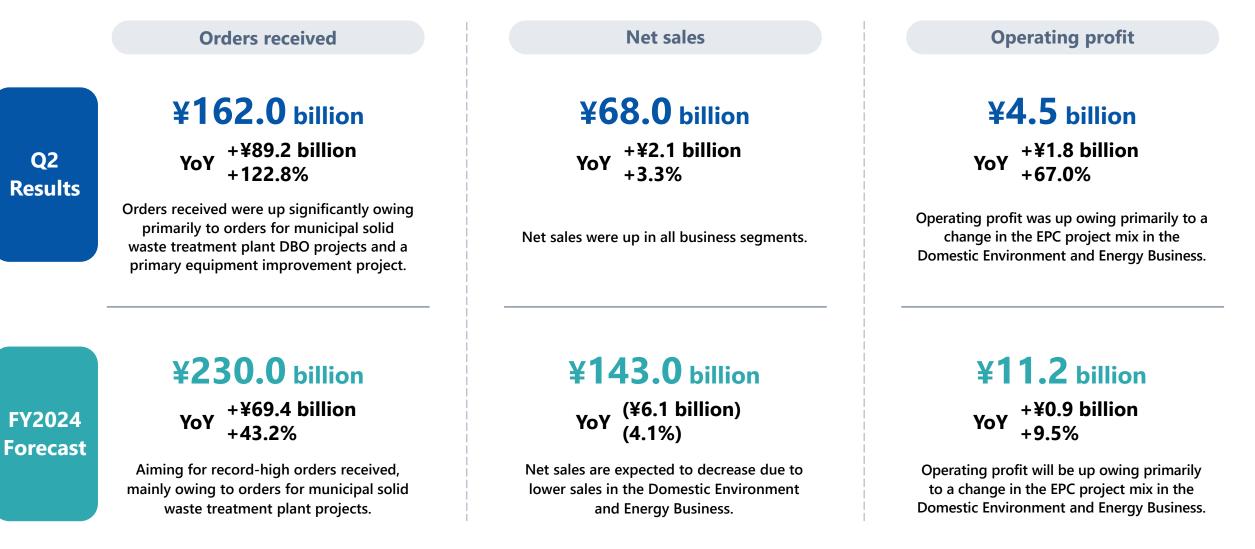
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4. Appendix

## Q2 FY2024 (Ending 3/2025)

**Summary** 

### TAKUMA



\* No changes from the initial forecasts announced on May 14, 2024.

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Orders received were up owing to orders for a municipal solid waste treatment plant DBO projects and a primary equipment improvement project in the Domestic Environment and Energy Business.

Net sales were up in all business segments. Operating profit was up owing primarily to a change in the EPC project mix in the Domestic Environment and Energy Business and an elimination of costs for measures at a municipal solid waste treatment plant O&M project (after-sales services) recorded for FY2023.

Profit attributable to owners of parent was up significantly with the recording of a gain on sales of investment securities.

(Millions of yen)	Q2 FYE 3/2023 (FY2022)	Q2 FYE 3/2024 (FY2023)	Q2 FYE 3/2025 (FY2024)	YoY change
Orders received	65,152	72,714	162,013	+122.8%
Order backlog	444,622	478,009	576,561	+20.6%
Net sales	65,834	65,916	68,064	+3.3%
Operating profit	5,665	2,724	4,548	+67.0%
Operating margin	8.6%	4.1%	6.7%	+2.6pt
Ordinary profit	6,146	3,233	5,053	+56.3%
Profit attributable to owners of parent	4,296	1,927	4,114	+113.5%
Basic earnings per share (yen)	53.63	24.10	51.79	-



(Millions of yen)	Q2 FYE 3/2023 (FY2022)	Q2 FYE 3/2024 (FY2023)	Q2 FYE 3/2025 (FY2024)	YoY change
Orders received				
Total	65,152	72,714	162,013	+122.8%
Domestic Environment and Energy	45,177	57,183	144,789	+153.2%
Overseas Environment and Energy	1,093	1,793	1,337	(25.4%)
Package Boiler	10,016	10,449	11,313	+8.3%
Equipment and Systems	9,062	3,452	4,810	+39.3%
Net sales	· · · · · ·			
Total	65,834	65,916	68,064	+3.3%
Domestic Environment and Energy	54,378	52,194	52,625	+0.8%
Overseas Environment and Energy	612	1,003	1,454	+45.0%
Package Boiler	7,467	8,441	8,560	+1.4%
Equipment and Systems	3,572	4,471	5,657	+26.5%
Operating profit				
Total	5,665	2,724	4,548	+67.0%
Domestic Environment and Energy	6,476	3,096	4,838	+56.3%
Overseas Environment and Energy	(72)	32	177	+452.8%
Package Boiler	145	404	463	+14.5%
Equipment and Systems	298	414	358	(13.4%)

\* Adjustments are omitted.

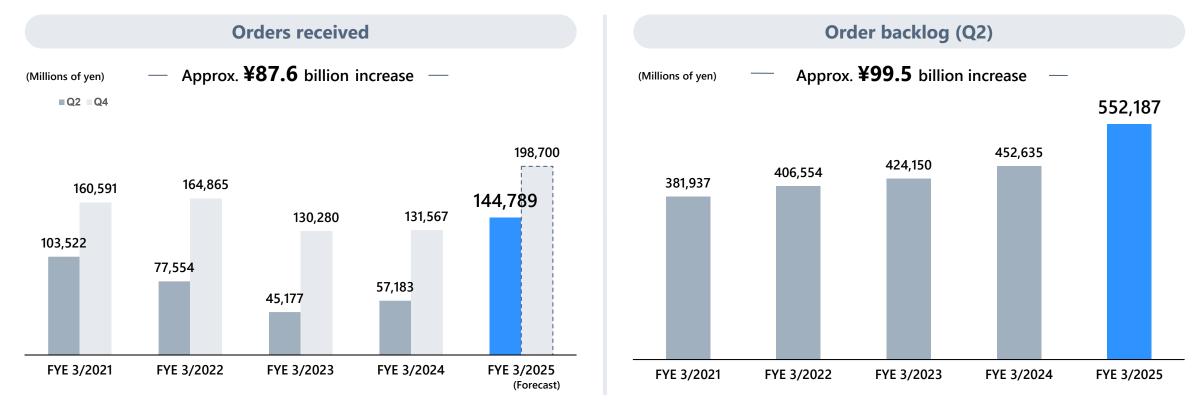
## **Domestic Environment and Energy Business**

Orders received / Order backlog



Orders received were up owing primarily to orders for a municipal solid waste treatment plant DBO projects and a primary equipment improvement project.

- Orders received: Up owing to orders for waste treatment plants (2 DBO projects, 1 primary equipment improvement project), 1 energy plant and 1 sludge incineration plant.
- The order backlog: Rising tendency owing to steady orders for long-term O&M (such as DBO and BTO projects).



Net Sales / Operating Profit

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Net sales were up owing primarily to an increase in municipal solid waste treatment plants (after-sales service) and water treatment plants.

Operating profit was up owing primarily to a change in the EPC project mix in the Domestic Environment and Energy Business and an elimination of costs for measures at a municipal solid waste treatment plant O&M project (after-sales services) recorded for FY2023.



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## **Domestic Environment and Energy Business**

Breakdown by Product / Service



Orders received were up owing to an increase in municipal solid waste treatment plants (EPC and after-sales services). Net sales were up owing to an increase in municipal solid waste treatment plants (after-sales services) and water treatment plants.



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### **Domestic Environment and Energy Business**

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In Q1 and Q2 of FYE 3/2025, orders were received for waste treatment plants (2 DBO projects, 1 primary equipment improvement project), and 1 sludge incineration plant.

	Year		Delivered to:	Notes		Capacity	Scheduled Completion
		Q1	Senboku Environmental Improvement Facilities Association	EPC	Primary equipment improvement project	300 t/day	3/2024
	FYE 3/2023	Q3	Okinoshima-cho	After-sales service	Long-term O&M	25 t/day	4/2023-3/2038 (15 years)
Municipal		Q4	Kohoku Wide Area Administrative Affairs Center	EPC & After-sales service	вто	124 t/day	3/2030 (18 years of operations starting 4/2028 <sup>*</sup> )
Municipal solid waste	FYE	O3 Ashikaga City		EPC & After-sales service	DBO	152 t/day	3/2028 (20 years of operations starting 4/2028)
treatment	3/2024	Q4	Sapporo City	EPC & After-sales service (Crushing facility)	DBO	140 t/5h	3/2028 (20 years of operations starting 4/2028)
plants		Q1	Amagasaki City	EPC & After-sales service	DBO	447t/day	3/2031 (20 years of operations starting 4/2031)
	FYE 3/2025	QI	Clean Authority of TOKYO	EPC	Primary equipment improvement project	1,800t/day	1/2029
		Q2	Gyoda Hanyu Resources and Environment Association	EPC & After-sales service	DBO	126t/day	6/2028 (20 years of operations starting 7/2028)
Matar	FYE	Q2 Ochiai Water Reclamation Center		EPC (Sand filtration system)	-	128units	2/2028
Water treatment	3/2024	Q3	Osaka Prefecture Chuo Mizu Mirai Center	EPC (sludge treatment plant) & After-sales service	DBM	sewage sludge incineration 100t/day	7/2027 (About 11 years of long- term maintenance starting 7/2027)
plants	FYE 3/2025	Q2	Kyoto City Water Supply and Sewerage Bureau	EPC (sludge incineration plant)	-	sewage sludge incineration 150t/day	3/2028

\* Start of overall facility operations, including heat recovery facility

**Main Orders Received** 



In Q1 and Q2 of FYE 3/2025, order was received for 1 biomass power plant.

	Year		Delivered to:		Notes	Capacity	Scheduled Completion
			Sanyo-Onoda Green Energy Co.	EPC	Power generation business (Biomass, FIT)	1,990kW	6/2024
		Q1	Power Aid MIE LLC.	EPC	Power generation business (Biomass and others, Non-FIT)	1,990kW	Winter FYE 3/2025
			Yonezawa Bio Energy LLC.	EPC	Power generation business (Biomass, FIT)	7,100kW	11/2025
	FYE 3/2023	Q2	Soga Biomass Power Generation Co.	EPC	Power generation business (Biomass, FIT)	1,990kW	11/2024
			Company A	EPC (Fuel conversion)	Self-consumption (Biomass and others, Non-FIT)	-	-
		Q3	Katsuta Co., Ltd.	EPC	Industrial waste treatment	150t/day	2/2026
		Q4	Regional power Co.	EPC	Power generation business (Biomass, Non-FIT)	9,990kW	8/2026
Energy		01	Furusato FIC Energy LLC.	EPC	Power generation business (Biomass, FIT)	1,990kW	1/2026
plants		Q1	Mogami Biomass Power Generation2 (KK)	EPC	Power generation business (Biomass, FIT)	7,100kW	10/2026
			Shin Tokai Paper Co., Ltd. Shimada Plant	EPC	Self-consumption (Biomass and others, Non-FIT)	-	1/2027
	FYE	Q2	Company B	EPC	Power generation business (Biomass, FIT)	7,100kW	-
	3/2024		Green Power Tono (KK)	EPC	Power generation business (Biomass, FIT)	1,990kW	11/2026
		02	Tochigi High Trust Co., Ltd.	EPC	Industrial waste treatment	93.6t/day	2/2027
		Q3	Hachimantai Next Energy Co.	EPC	Power generation business (Biomass, FIT)	7,100kW	12/2026
		Q4	Company C	EPC	Power generation business (Biomass, FIT)	1,990kW	-
	FYE 3/2025	Q2	Company D	EPC	Power generation business (Biomass, FIP)	1,990kW	-

\*Self-consumption: Steam (heat) and electricity produced by a plant installed within the factory are used within the factory without being supplied externally.

## **Domestic Environment and Energy Business**

Quarterly trend in Orders received / Net sales (reference material)



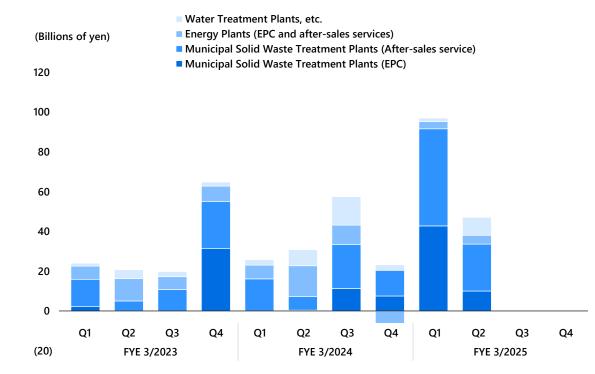
Orders received vary significantly depending on the timing that projects are recorded.

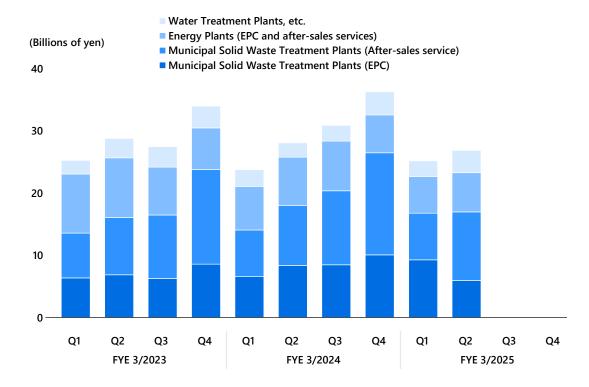
Net sales tend to increase going into the fourth quarter.

### Orders received (quarterly) The amount of each EPC project is large, so orders received tend to vary significantly depending on the timing of the contract.

#### Net sales (quarterly)

Although net sales vary depending on progress on construction of EPC projects for the period, municipal solid waste treatment plants (after-sales service) increases going into the fourth quarter, so overall net sales also tend to increase going into the fourth quarter.





### **Domestic Environment and Energy Business Topics**

Received order for DBO project for waste treatment plant from Gyoda Hanyu Resources and Environment Association

- > Construction of new incineration facilities and material recycling promotion facilities
- > 20 years of operation starting from July 2028
- Introduction of highly efficient waste power generation technology that reduces greenhouse gas emissions and advanced sorting technology that promotes resource recycling
- Contract amount: 37.6 billion JPY (excluding tax) \*total amount of orders received by the corporate group represented by Takuma



New waste treatment plant - completed image

Signed a business partnership agreement regarding solar power generation with Next Energy & Resources Co., Ltd.

- Our subsidiary Takuma Energy, which operates a retail electricity business, has entered into a business partnership agreement with Next Energy & Resources, which manufactures and sells solar power generation equipment
- Expanding competitiveness by making it possible to make proposals using solar power generation equipment to local governments that are working on decarbonization and local production and consumption of electricity



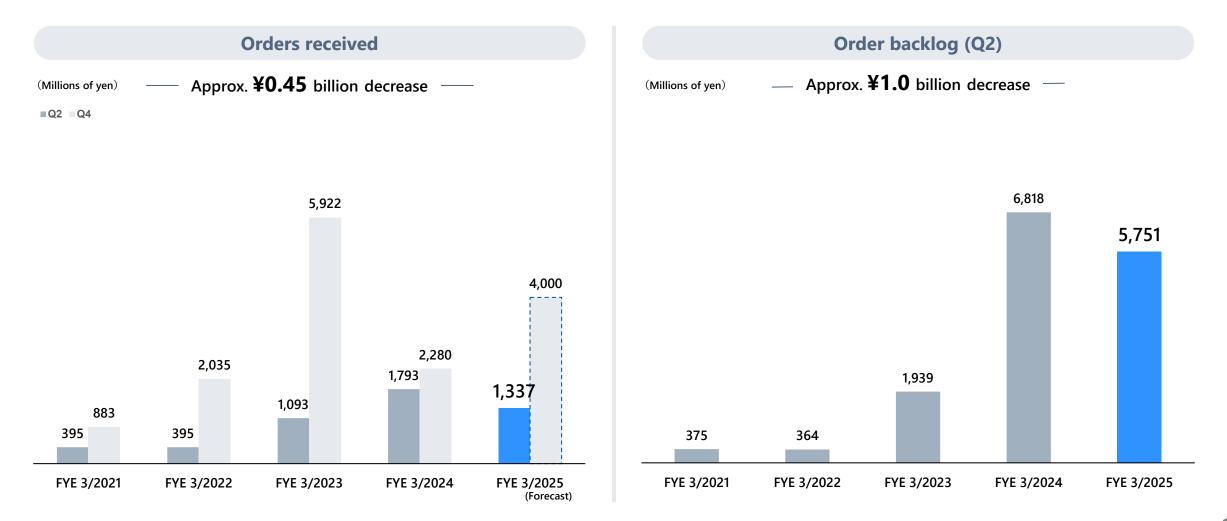
Solar Carport, a product of Next Energy & Resources

### **Overseas Environment and Energy Business**

Orders received / Order backlog



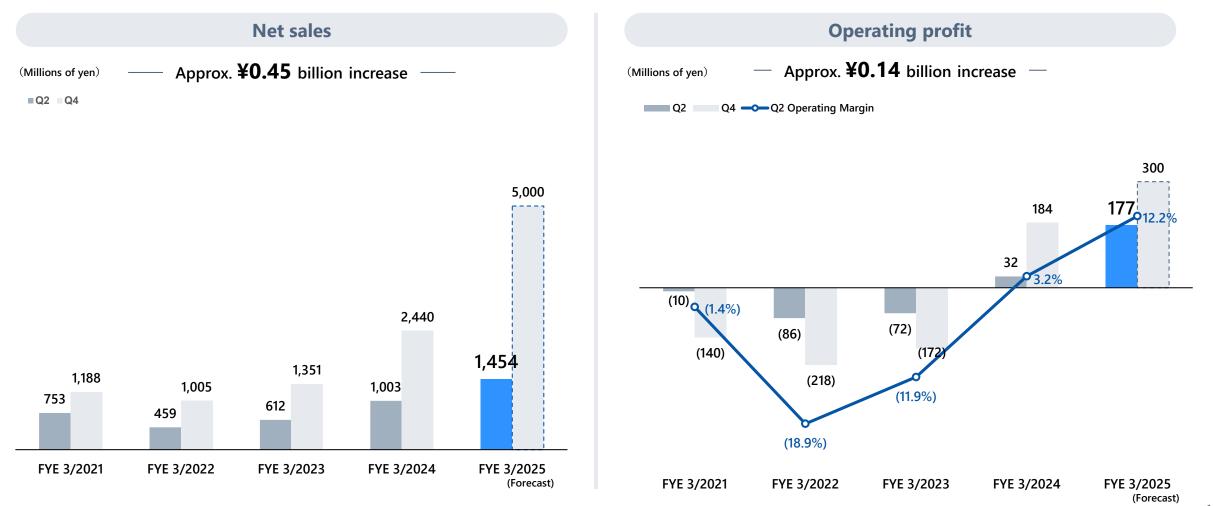
Orders received were down compared to FY2023, when we ordered an additional offer for new plant construction projects.



## **Overseas Environment and Energy Business**

Net sales / Operating profit

Net sales and operating profit were up owing to progress on new plant projects previously ordered.



### Package Boiler Business



Orders received were up due to a continued moderate recovery in demand.

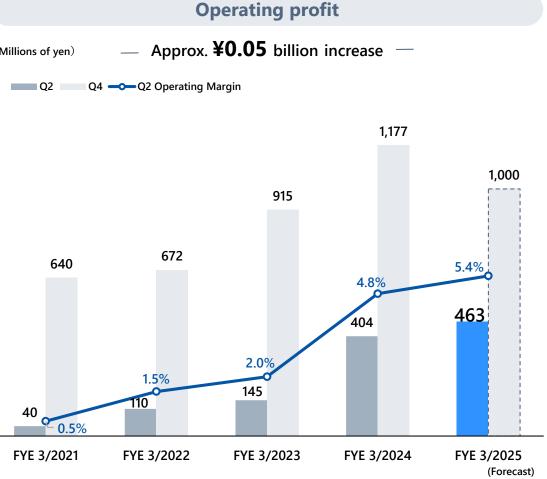


### Package Boiler Business



Net sales and operating profit were up owing to progress on projects previously ordered.





#### Signed a stock transfer agreement to acquire shares of IHI Packaged Boiler Co., Ltd.

- IHI Packaged Boiler Co. will become a consolidated subsidiary of Takuma on April 1, 2025, based on the stock transfer agreement between Takuma and IHI
- IHI Packaged Boiler Co. and our subsidiary Nippon Thermoener are scheduled to merge on April 1, 2026, with the aim of leveraging synergies with Nippon Thermoener, which manufactures and sells general-purpose boilers
- By combining the product lineups and technological capabilities of both companies, which have high shares in the domestic general-purpose boiler market, Takuma group will establish a supply system for products and services with higher added value



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Once-through boilers manufactured and sold by IHI Packaged Boiler Co.

Nippon Thermoener Co., Ltd. made two biomass boiler manufacturers into subsidiaries

- Nippon Thermoener has made Daiichi Sanki, which handles small biomass boilers, and Sanki Engineering into subsidiaries
- Responding to the expanding needs for low carbon and decarbonization by adding a boiler that makes livestock industry byproducts into fuel to the product lineup



Small biomass boiler manufactured by Daiichi Sanki

**Orders Received / Order Backlog** 



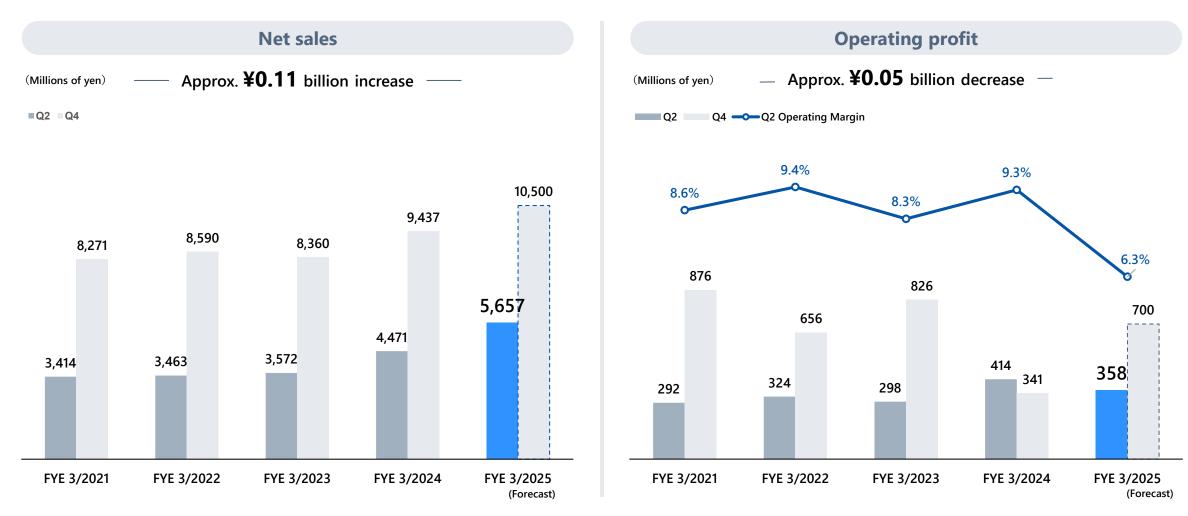
Orders received increased primarily from orders in the building equipment business.



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### **Equipment and Systems Business**

Net sales were up owing to progress on projects for which orders were already received, whereas operating profit was down due primarily to changes in the project mix.





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## FY2024 (Ending 3/2025)

**Results Forecast** 



No changes from the initial forecasts announced on May 14, 2024. Aiming for record-high orders received of ¥230.0 billion. While sales are expected to be down, profit will be up owing mainly to changes in the EPC project mix.

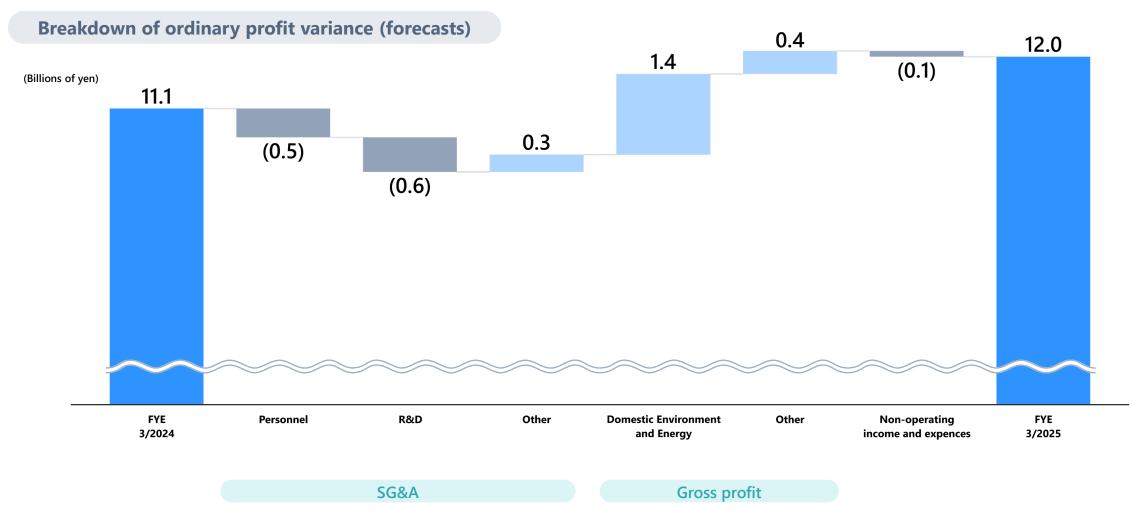
- Orders received: Demand will be stable for renewal, and service life improvement of waste treatment plants and other projects, and we will go after these orders.
- Net sales: Down due to a decrease in sales in the Domestic Environment and Energy Business.
- Profit and loss: Profit up owing mainly to a change in the EPC project mix. → See "Profit Variance Analysis Forecast" on P.22

(Millions of yen)	FYE 3/2023 (FY2022)	FYE 3/2024 (FY2023)	FYE 3/2025(FY2024) Beginning of year forecast	YoY change
Orders received	168,558	160,568	230,000	+43.2%
Order backlog	471,211	482,612	569,612	+18.0%
Net sales	142,651	149,166	143,000	(4.1%)
Operating profit	13,813	10,229	11,200	+9.5%
Operating margin	9.7%	6.9%	7.8%	+0.9pt
Ordinary profit	14,684	11,166	12,000	+7.5%
Profit attributable to owners of parent	9,621	8,754	8,800	+0.5%
Basic earnings per share (yen)	120.22	109.43	111.80*	-

\*The forecast of basic earnings per share takes into account the effect of the acquisition and disposal of treasury stock, decided at the Board of Directors meeting on May 14, 2024

## FY2024 (Ending 3/2025)

Although we expect an increase in SG&A expenses such as personnel and R&D expenses, we also expect an increase in profit due to higher gross profit in the EPC Business and recurring revenue model businesses.





(Millions of yen)	FYE 3/2023 FYE 3/2024 (FY2022) (FY2023)		FYE 3/2025 (FY2024) Beginning of year forecast	YoY change
Order received				
Total	168,558	160,568	230,000	+43.2%
Domestic Environment and Energy	130,280	131,567	198,700	+51.0%
Overseas Environment and Energy	5,922	2,280	4,000	+75.4%
Package Boiler	18,400	18,666	18,800	+0.7%
Equipment and Systems	14,328	8,403	9,000	+7.1%
Net sales				
Total	142,651	149,166	143,000	(4.1%)
Domestic Environment and Energy	115,985	119,190	109,400	(8.2%)
Overseas Environment and Energy	1,351	2,440	5,000	+104.9%
Package Boiler	17,312	18,492	18,600	+0.6%
Equipment and Systems	8,360	9,437	10,500	+11.3%
Operating profit				
Total	13,813	10,229	11,200	+9.5%
Domestic Environment and Energy	14,875	11,228	12,300	+9.5%
Overseas Environment and Energy	(172)	184	300	+62.5%
Package Boiler	915	1,177	1,000	(15.1%)
Equipment and Systems	826	341	700	+105.0%

\* Adjustments are omitted.

Actively invest in further business expansion in the future.

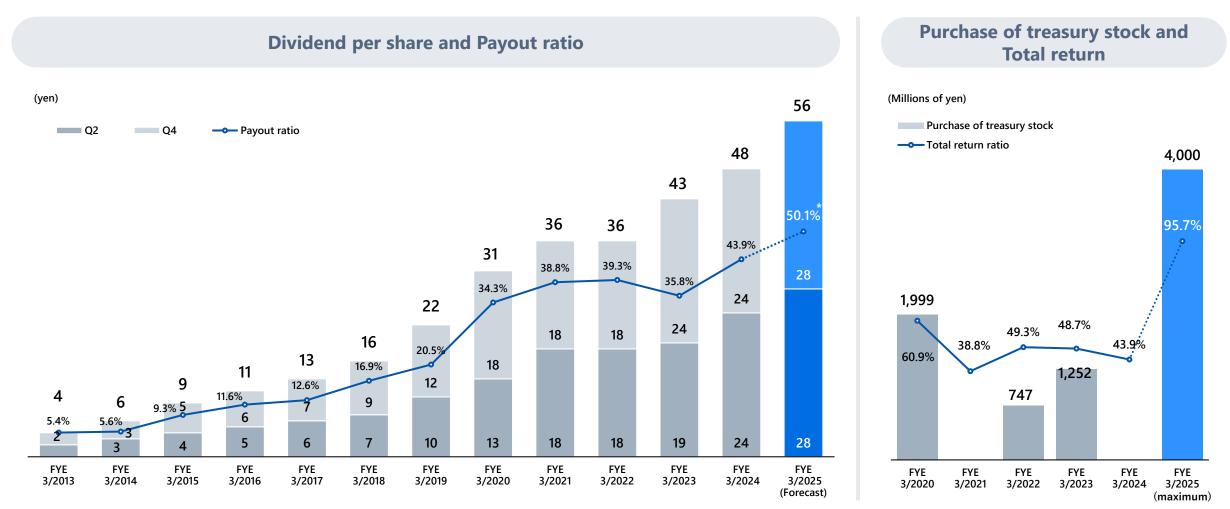
- Human resources investment: Strengthen hiring and training of human resources, especially in Engineering, Construction and Maintenance divisions.
- Capital investment: Expected to decrease YoY as capital investment at the new Harima Factory was completed in FY2023 (ended 3/2024).
- Depreciation: Up due to operations at the new Harima Factory. Expected to gradually decrease going forward.
- Research and development expenses: We engaged in R&D, primarily in relation to decarbonization technology. Expenses are expected to increase compared to the previous year due to experiments and installation of testing equipment.

Human resources investment	FYE 3/2020	FYE 3/2021	FYE 3/2022	FYE 3/2023	FYE 3/2024	FYE 3/2025 (Forecast)
Number of employees (people, consolidated)	3,816	3,925	4,145	4,247	4,278	-
Number of employees (people, non-consolidated)	875	894	958	1,002	1,054	-
Hires (people, non-consolidated)	45	62	79	69	83	60-70

(Millions of yen)	FYE 3/2020	FYE 3/2021	FYE 3/2022	FYE 3/2023	FYE 3/2024	FYE 3/2025 (Forecast)
Capital investment	1,564	2,420	3,844	7,100	3,527	1,600
Depreciation	917	1,036	961	1,136	1,797	2,000
Research and development expenses	1,154	1,047	1,006	1,150	1,629	2,200

(Millions of yen)	FYE 3/2020	FYE 3/2021	FYE 3/2022	FYE 3/2023	FYE 3/2024	FYE 3/2025 (Forecast)
Selling, general and administrative expenses (consolidated)	16,261	16,326	16,254	17,741	19,309	-

The annual dividend for FY2024 (ending 3/2025) is to be increased by 8 yen to ¥56 per share. The total return ratio is expected to be 95.7% through share repurchase of up to JPY 4 billion and cancellation of treasury shares.



\*The forecast of payout ratio takes into account the effect of the acquisition and disposal of treasury stock, decided at the Board of Directors meeting on May 14, 2024

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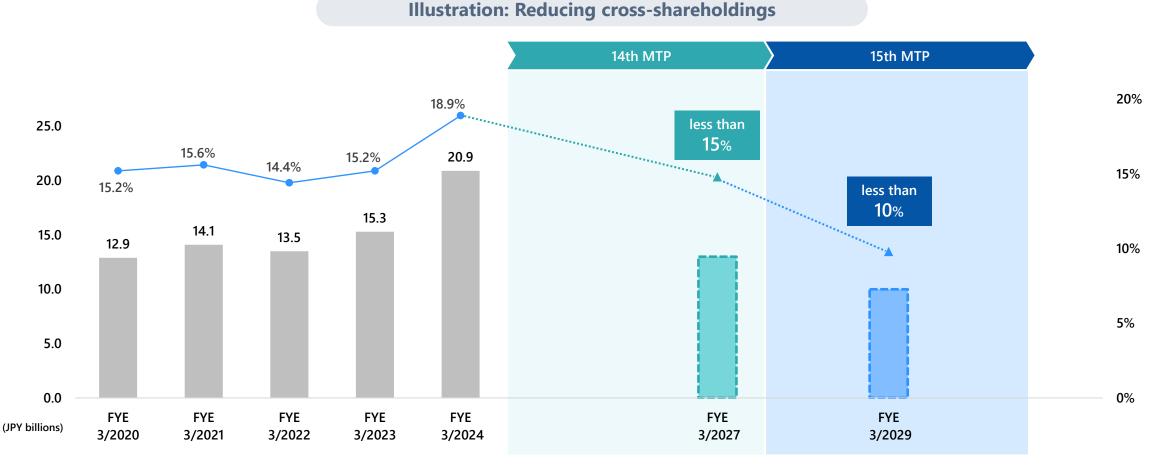
### Summary of the Document Announced on November 8, 2024

- Takuma has been engaging in dialogue with shareholders and investors with the aim of further enhancing its corporate value since announcing its 14th Medium-Term Management in May of this year. Takuma announces that a policy to reduce cross-shareholdings has been decided as detailed below at today's meeting of the Board of Directors, as a result of ongoing discussions by the Board of Directors, taking into account the feedback received through these dialogues.
- In order to further accelerate its reduction effort, Takuma will reduce its cross-shareholdings to less than 15% of its consolidated net assets (selling approximately 7 billion yen worth of shares) by the end of the fiscal year ending March 2027, which is the final year of the 14th MTP, and will further reduce them to less than 10% by the end of the fiscal year ending March 2029 (selling further approximately 3 billion yen worth of shares).
- Takuma will work to improve the efficiency of its balance sheet, primarily by reducing cross-shareholdings, and use the cash generated to return profits to shareholders, such as dividends and purchases of treasury shares. As a result, shareholder returns over the three-year period of the 14th MTP are expected to be a total of 33 billion yen, with a total return ratio of approximately 110%, including a dividend payout ratio of 50%.
- As Takuma works to improve the efficiency of its balance sheet as mentioned above, and as the Company expects to realize gains on sales from the reduction of our cross-shareholdings, the Company has revised its ROE target for the fiscal year ending March 2027 upward to 11% or more.

➡ For details, please refer to <u>the linked document</u>

### **Strengthening the Policy to Reduce Cross-share Holdings**

In order to further accelerate our reduction effort, we will reduce our cross-shareholdings to less than 15% of its consolidated net assets (selling approximately 7 billion yen worth of shares) by the end of the fiscal year ending March 2027, and will further reduce them to less than 10% by the end of the fiscal year ending March 2029 (selling further approximately 3 billion yen worth of shares).

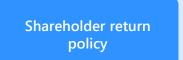


Amount on the balance sheet

Consolidated net assets ratio

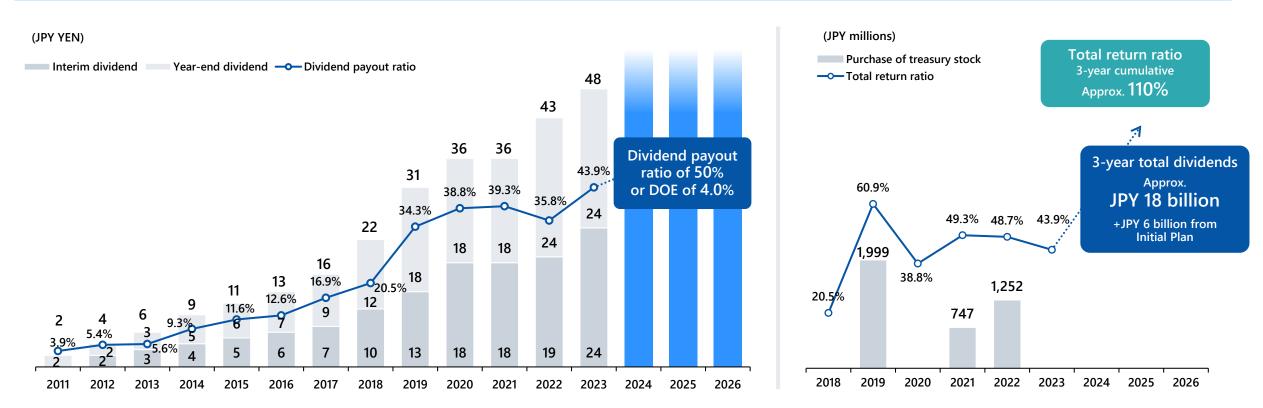
### **Strengthening Shareholder Return Policy**

We will work to improve the efficiency of our balance sheet, primarily by reducing cross-shareholdings, and use the cash generated to return profits to shareholders, such as dividends and purchases of treasury shares. As a result, shareholder returns over the three-year period of the 14th MTP are expected to be a total of 33 billion yen, with a total return ratio of approximately 110%.



Enhancing shareholder returns and improving capital efficiency through stable dividends and share repurchase
 Establish as a target amount whichever is higher calculated based on dividend payout ratio of 50% or dividend on equity (DOE) ratio of 4.0%

3 Share repurchase totaling approximately JPY 18 billion over three years to improve capital efficiency



Working to improve the efficiency of our balance sheet as mentioned above, and expecting to realize gains on sales from the reduction of cross-shareholdings, we have revised our ROE target for the fiscal year ending March 2027 upward to 11% or more.

							-
	13th MTP		14th N	Vision2030			
(JPY billions)	(3-year total)		3-year total	FY2024	FY2025	FY2026	FY2031
Orders received	521.3	_	600.0 🕈	230.0	180.0	190.0	
Net sales	425.9		460.0	143.0	152.0	165.0	200.0
Operating profit	33.9		35.6	11.2	11.2	13.2	
Ordinary profit	36.4	-	38.0 🔻	12.0	12.0	14.0	 20.01
ROE	<b>8.3%</b> (FY3/2024)	-	at least <b>11% ↑</b> (FY3/2027)	8.0%	9.0%	11.0%	 at least <b>12%</b> 1 (FY3/2031)
OE = Profit / Equity cap	pital	-	Upward Revision				

at November 8, 2024

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:Main target



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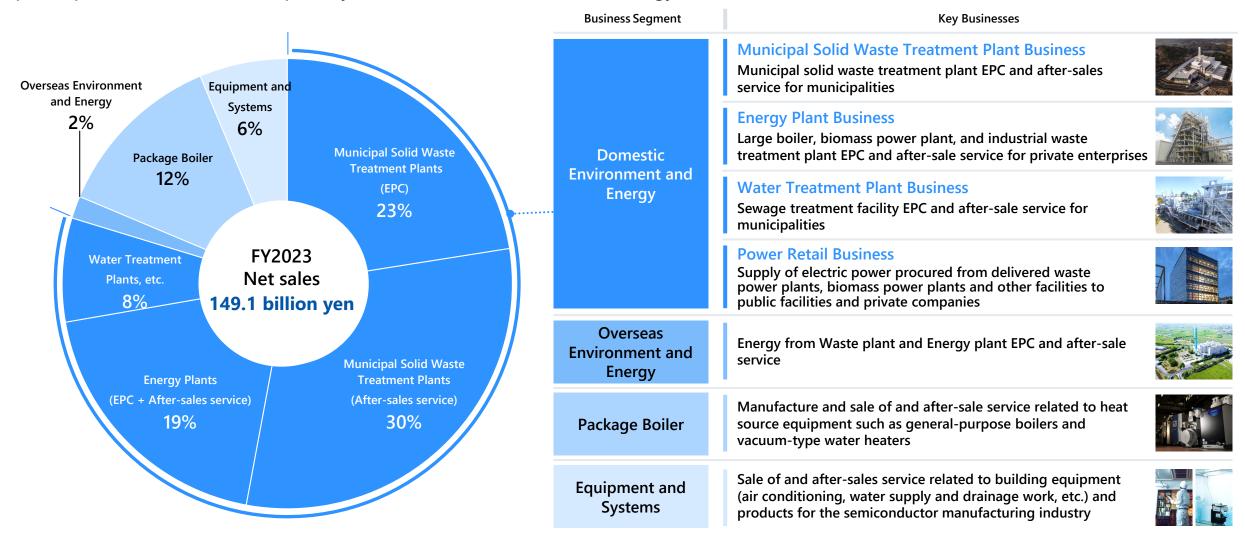
## History

In 1912, we invented the first boiler in Japan using purely Japanese technology. While improving boiler technology, the company cultivated combustion and water treatment technologies and utilized them to enter the environmental field, such as waste incineration plants. Since then, we have provided technologies and services for solving customer and societal challenges, primarily in the fields of environment and energy.

Domestic			facility sector	•	n		2014 Takuma's first biomass power plant under Japan's FIT program was launched. Thereafter, many more plants were delivered
	1938 Takuma Boiler Manufacturin was founded 1912 The Takuma boiler was launched by Tsunekichi Takuma.		)	c	 amed TAKUMA		<b>)</b>
Overseas		1949 Bagasse-fired first product of be exported *Biomass boiler				2010 Energy from V Europe (U.K.) seas delivery of ility completed	

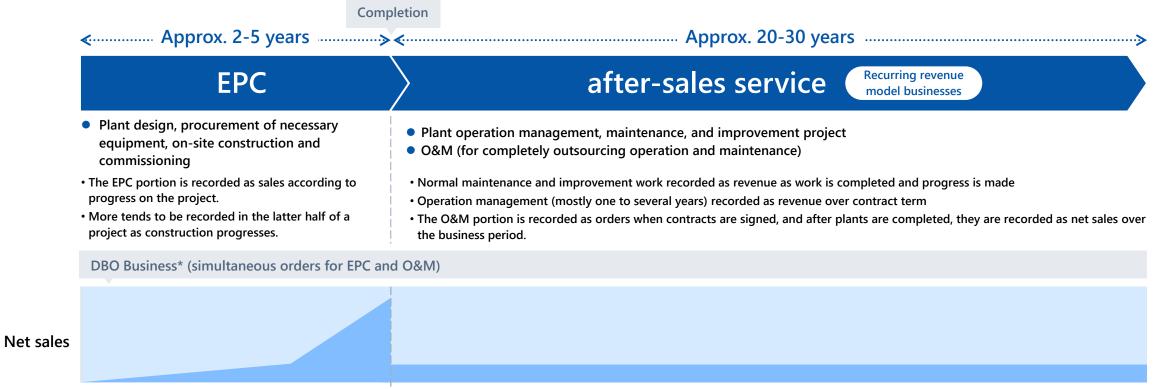
## **Business Segment**

Our business is centered on engineering, procurement, and construction (EPC) and after-sales service of waste treatment facilities, biomass power plants, etc. based on the primary themes of "environment" and "energy".



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Revenue comes primarily from engineering and construction (EPC) and after-sales service (operational management, maintenance, O&M, etc.) of plants.

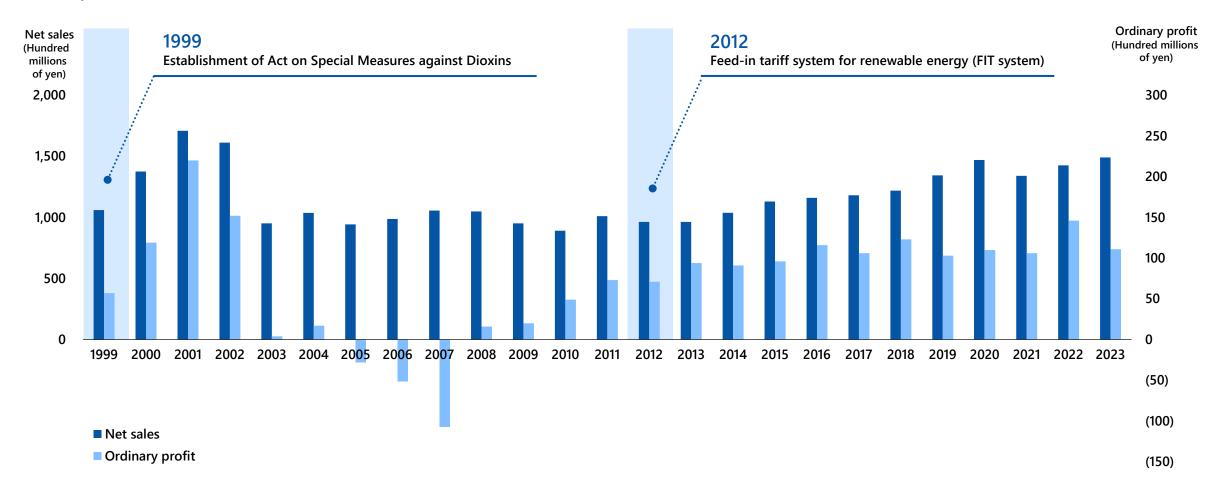


Order backlog **EPC** 

O&M

### **Performance Trends**

In the latter half of the 2000s, we focused on after-sales service, which would provide its earnings base. There has been steady demand for renewal and service life improvement of waste treatment plants and an increase in demand for biomass power plants, resulting in stable net sales and profits.



## **Management Principles and Long-Term Vision**

### **Management Principles**

Takuma will strive for social contribution, corporate value enhancement, longterm corporate development and the satisfaction of all stakeholders by providing goods and services that are needed and recognized as valuable in society.

> We will address social and environmental issues (ESG issues) through businesses that leverage the Group's strengths, viewing the resolution of these issues as an opportunity for growth, while also increasing our company's economic value.

### Vision2030

We aim to maintain our role of being an indispensable presence in society as a leading company in the field of renewable energy utilization and environmental protection and reach an ordinary profit level of JPY 20.0 billion.

### **Keywords for realizing Vision2030**



A great partner to our customers



Innovation of technologies and services

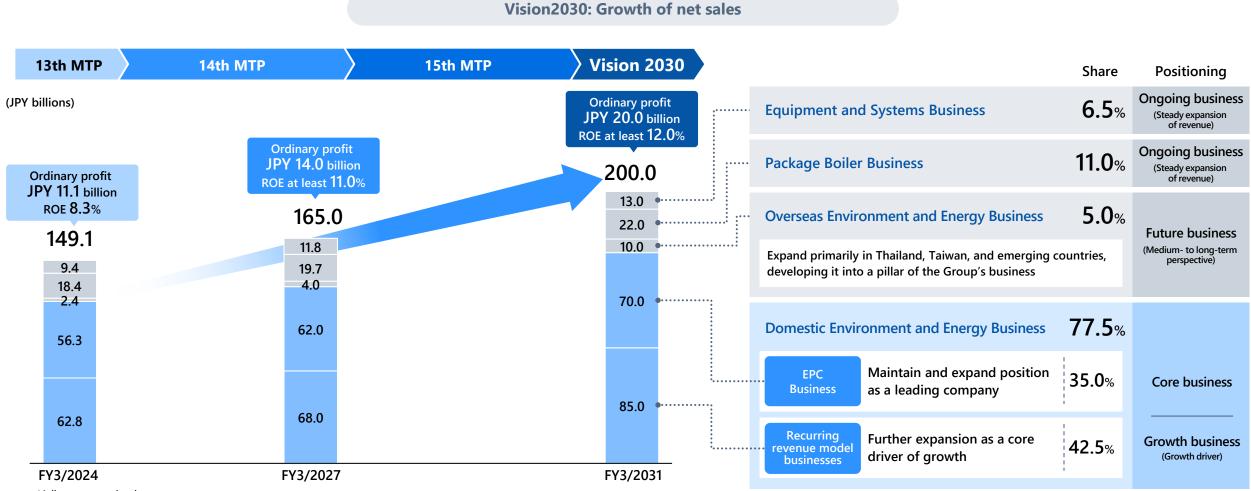


Solving issues faced by our customers and society

TAKUMA

Achieve further expansion with recurring revenue model businesses as the core driver of growth for Vision2030.

Work on expanding the EPC business at the same time as recurring revenue will increase to achieve ordinary profit of JPY 20.0 billion by FY3/2031.



#### \*Adjustments omitted

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We expect the market environment for our business to be generally favorable and strong.

			14th Medium-Term Management Plan period (FY2024-2026	5)	Future	
	Municipal solid	EPC	<ul> <li>Steady demand for renewal (rebuilds)</li> <li>Ongoing demand for service life extension (primary equipment improvement)</li> </ul>		<ul> <li>Decreased demand for renewal due to low birth rate and aging society</li> <li>Increased demand for decarbonized facilities</li> </ul>	
	waste treatment plants	After-sale services	• Increase in operations businesses (DBO Business and O&M contracts)		<ul> <li>Decrease in number of facilities in operation (reorganization)</li> <li>Ongoing demand for operations businesses</li> <li>Further development of projects outsourced to the private sector</li> </ul>	
Domestic Environment and		EPC: FIT/FIP/Non-FIT	<ul> <li>Decrease in large-scale projects due to changes in the FIT program</li> <li>Ongoing demand for small to medium-sized FIP and non-FIT projects</li> </ul>		Ongoing renewable energy policy support for achieving carbon neutrality	•
Energy	Energy plants	EPC: For private consumption and industrial waste treatment	Ongoing demand for renewal due to aging plants and decarbonization		Certain level of ongoing demand	
		After-sale services	Increase in maintenance demand associated with increase in deliveries		Ongoing maintenance demand at facilities in operation	
	Water treatment plants		<ul> <li>Ongoing demand for renewal due to aging plants</li> <li>Increased demand for products with high environmental performance</li> <li>Progress and increase in private sector utilization</li> </ul>		<ul> <li>Ongoing needs for energy conservation, energy creation, and resource</li> <li>utilization</li> <li>Increase in comprehensive contracting of plant construction and operation</li> </ul>	
	Power retail business		Increased demand for renewable energy and non-fossil fuel-based power     associated with decarbonization		+ Certain level of ongoing demand	
Overseas Environment and Energy * Southeast Asia		east Asia	<ul> <li>Continued intense competition in the biomass power generation market</li> <li>Increased needs for utilization of diverse fuels</li> <li>Sluggish start in waste power generation market (Caused by system, funding, and other issues)</li> </ul>	•	Increased demand for waste disposal and electric power due to economic growth and urbanization	
Package Boiler			<ul> <li>Japan: Certain level of ongoing renewal demand despite market maturity</li> <li>Emerging countries: Increased demand for energy-saving products</li> </ul>	•	<ul> <li>Japan: Market shrinkage due to low birth rate and aging society along with population decline</li> <li>Japan: Ongoing demand for energy-saving and decarbonization products</li> <li>Emerging countries: Market expansion with economic growth</li> </ul>	
Equipment and Systems			Certain level of ongoing demand from construction demand and increased semiconductor capital investment		<ul> <li>Certain level of ongoing demand (building equipment)</li> <li>Expansion of demand for semiconductor equipment with utilization and development of AI, etc.</li> </ul>	

The 14th Medium-Term Management Plan is positioned to materialize the growth story for realizing the vision by prioritizing investment of management resources into receiving orders for municipal solid waste treatment plants (renewals and primary equipment improvement) and establishing a revenue model that maximizes the use of recurring revenue while formulating and implementing measures to solve various

challenges. Planting seeds Vision 2030 13th MTP Development Obtainment 14th MTP 15th MTP Orders received Net sales Preparation for further growth Materialization of the growth story 20.0 Ordinary profit ..... ...... (JPY billions) 14.6 14.0 230.0 11.1 192.2 10.6 Obtaining 200.0 190.0 180.012.0 12.0 160.5 168.5 results 165.0 152.0 149.1 142.6 134.0 143.0 2021 2022 2023 2025 2026 2027 2028 2029 2024 2030

Business	Further strengthening of existing businesses	<ul> <li>Basic Policy</li> <li>1 Maintaining and expanding our market position in the EPC Business</li> <li>2 Establishing a revenue model that fully utilizes recurring revenue</li> </ul>				
Strategy	Addressing future changes in the environment	<ol> <li>Steadily expanding revenue in the Package Boiler Business and Equipment and Systems Business</li> <li>Building a track record for the future in international business</li> <li>Promoting strategic M&amp;As and creating new businesses</li> </ol>				
Management foundation enhancement		<ol> <li>Securing and development of human resources</li> <li>Knowledge management</li> <li>Compliance and risk management</li> </ol>				

In addition to ordinary profit, new targets for orders received and return on equity (ROE) are set in the 14th Medium-Term Management Plan.

Three-year total target set for orders received of 600 billion JPY, which is significantly higher than the previous medium-term plan and is planned to be used as a foothold to achieve the target for FY2031.

	13th MTP		14th M	1edium-Term N	lanagement Pla	n	Vision2030
(JPY billions)	(3-year total)		3-year total	FY2024	FY2025	FY2026	FY2031
Orders received	521.3	-	600.0 🕇	230.0	180.0	190.0	
Net sales	425.9	- >	460.0	143.0	152.0	165.0	200.0
Operating profit	33.9		35.6	11.2	11.2	13.2	
Ordinary profit	36.4		38.0 🔻	12.0	12.0	14.0	20.0
ROE	<b>8.3%</b> (FY3/2024)	-	at least <b>11%</b>	8.0%	9.0%	11.0%	 at least <b>12%</b> (FY3/2031)
ROE = Profit / Equity cap	pital	-	Upward Revision				

at November 8, 2024

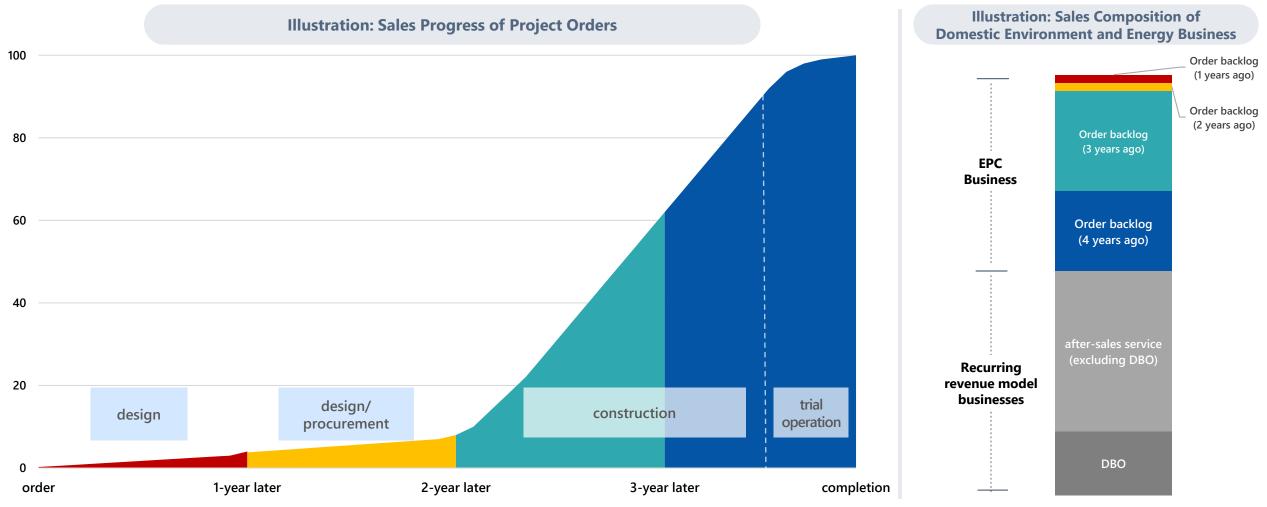


(JPY millions)	FY2024	FY2025	FY2026	3-year total
Orders received				
Total	230,000	180,000	190,000	600,000
Domestic Environment and Energy	198,700	146,700	155,000	500,400
Overseas Environment and Energy	4,000	4,000	4,000	12,000
Package Boiler	18,800	19,300	20,000	58,100
Equipment and Systems	9,000	10,500	11,500	31,000
Net sales				
Total	143,000	152,000	165,000	460,000
Domestic Environment and Energy	109,400	118,900	130,000	358,300
Overseas Environment and Energy	5,000	4,000	4,000	13,000
Package Boiler	18,600	19,100	19,700	57,400
Equipment and Systems	10,500	10,500	11,800	32,800
Operating profit				
Total	11,200	11,200	13,200	35,600
Domestic Environment and Energy	12,300	12,600	14,400	39,300
Overseas Environment and Energy	300	0	0	300
Package Boiler	1,000	1,050	1,100	3,150
Equipment and Systems	700	700	900	2,300

\*Adjustments omitted

Illustration: Sales Progress / Sales Composition (reference material)

For EPC orders, sales are recorded according to the progress of construction. Assuming that the plant construction period is 4 years, sales will make significant progress in the 3rd year and the first half of the 4th year (see "construction" period in the diagram below).



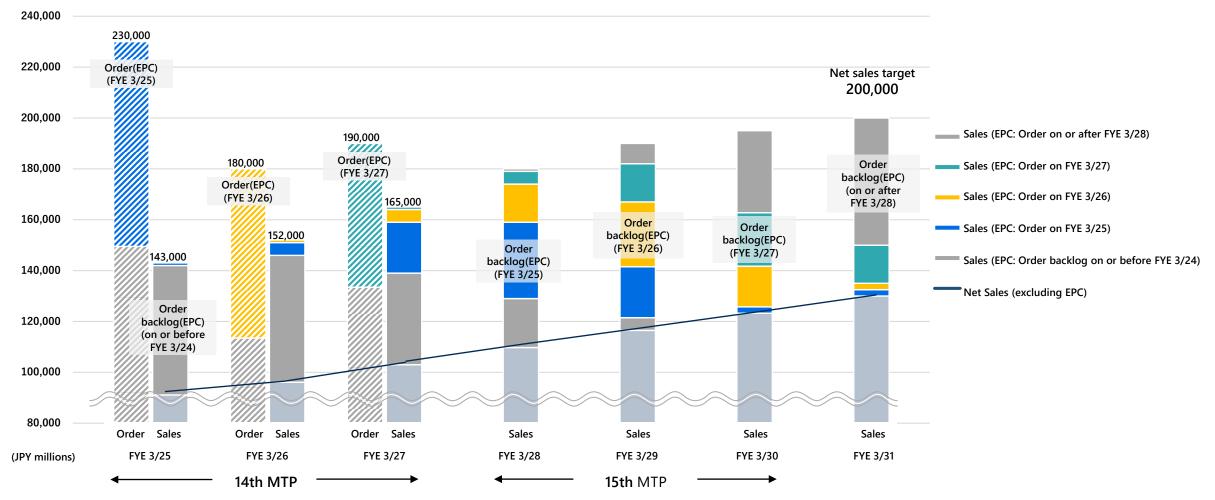
# 14th Medium-Term Management Plan

Illustration: Transition of Orders Received and Net Sales (reference material)



Regarding EPC orders in the 14th MTP (see shaded area in the diagram below), it will be from the 15th MTP that significant contributions will be made to sales.

By significantly increasing orders during this medium-term plan period, we aim to achieve net sales of 200 billion yen in FY 2031.



Basic Policy (1) and (2)

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In the Domestic Environment and Energy Business, which is a pillar supporting growth, we will increase EPC orders and link them to operation management and maintenance to achieve a virtuous cycle between the EPC Business and recurring revenue model businesses.

Priority measures by business/field		Basic policy 1 Maintaining and expanding our market position in the EPC Business	Basic policy 2 Establishing a revenue model that fully utilizes recurring revenue
Domestic Environment and Energy	Municipal solid waste treatment plants	<ul> <li>Expansion of orders for renewal and primary equipment improvement projects</li> <li>Review of measures to address market changes</li> </ul>	<ul> <li>Maintenance and expansion of orders for operation management, maintenance, and long-term O&amp;M projects</li> </ul>
		<ul> <li>3 or more renewal project orders per year</li> <li>Steady response to primary equipment improvement projects</li> <li>Support for decarbonization models and private sector utilization</li> </ul>	<ul> <li>Steady orders for regular maintenance work and DBO projects</li> <li>Cost reduction and quality improvement with data utilization</li> </ul>
	Energy plants	<ul> <li>Ongoing orders for new small and medium-sized biomass power generation plants and renewal of plants for private consumption and industrial waste treatment plants</li> </ul>	<ul> <li>Ongoing maintenance orders for delivered projects</li> <li>Enhancement of solution proposals, such as functional improvements and energy savings</li> </ul>
	Water treatment plants	<ul> <li>Acquisition of orders for sewage sludge incinerators and sand filtration facilities</li> <li>Expansion of share through technological superiority</li> </ul>	<ul> <li>Ongoing maintenance orders, including regular maintenance work</li> </ul>
	Power retail business	_	<ul> <li>Expansion of revenue by expanding relative power sources, securing new customers, and expanding service lineup</li> </ul>

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We will focus on expanding our product lineup, developing overseas operations, and securing and developing human resources to maintain and expand orders in each business.

Priority measures by business/field	Basic policy 3 Steadily expanding revenue in the Package Boiler Business and Equipment and Systems Business
Package Boiler	<ul> <li>Ongoing orders for renewal projects from expansion of product lineup, including low-carbon and decarbonization products</li> <li>Strengthening of maintenance business and overseas development</li> </ul>
Equipment and Systems	<ul> <li>Building equipment business (air conditioning, water supply and drainage sanitation equipment work): Strengthening of sales capabilities, securing and development of engineers, and cost reductions</li> <li>Semiconductor industrial equipment business: Maintenance and expansion of domestic sales and strengthening of overseas sales</li> </ul>
	Basic policy 4 Building a track record for the future in international business
Overseas Environment and Energy	<ul> <li>Acquisition of orders for biomass power plants through expansion of supported fuels</li> <li>Acquisition of orders for energy from waste plants, primarily in Thailand and Taiwan</li> </ul>

We will gather information with a focus on the business fields below to actively look into projects that match our business strategy.

Priority field

Seg	ment	Purpose/category					
(Busine	ess field)	Functional enhancement Expansion of business domain		In-house production of key devices			
	Municipal solid waste treatment plants						
Domestic Environment and	Water treatment plants	Strengthening of existing businesses and expansion of personnel	Expansion of peripheral businesses and creation of new businesses	Manufacturers and engineering			
Energy	Energy plants			companies			
	Power retail business	Expansion of service	lineup and personnel				
Overseas Environment and Energy		Local partners in EPC Business					
Package Boiler		Supplementation of producing functions New heat source systems					
Equipment and Systems		area ex	an resources and pansion ht business)				

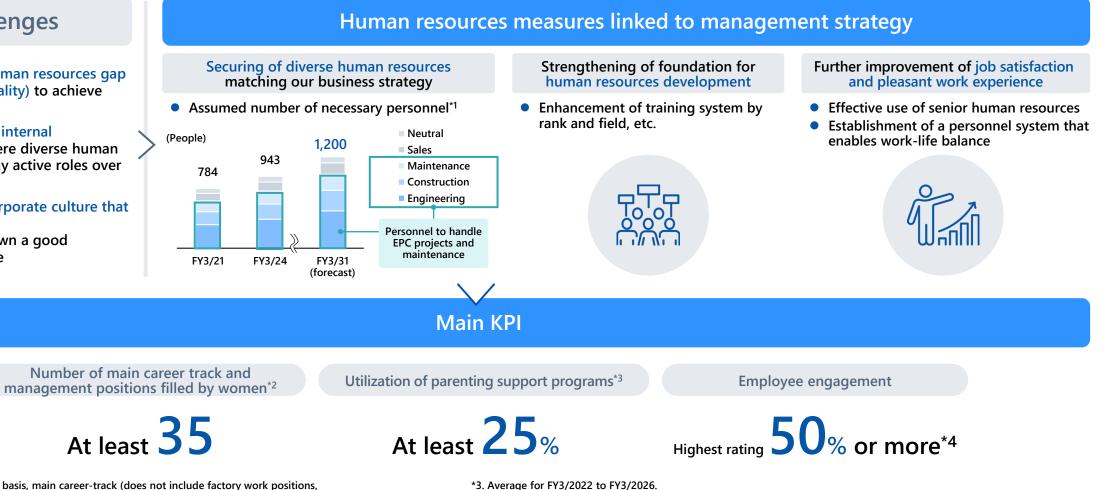
Securing and Development of Human Resources

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We will promote various human resources measures to expand resources in recurring revenue model businesses and the EPC Business.

### Challenges

- Elimination of human resources gap (quantity and quality) to achieve Vision 2030
- Establishment of internal environment where diverse human resources can play active roles over the long term
- Fostering of a corporate culture that accepts change while passing down a good corporate climate



\*1. Non-consolidated basis, main career-track (does not include factory work positions, general positions, or secondment). Each of the figures is for the beginning of the year. \*2. Cumulative total for April 1, 2021 to March 31, 2026.

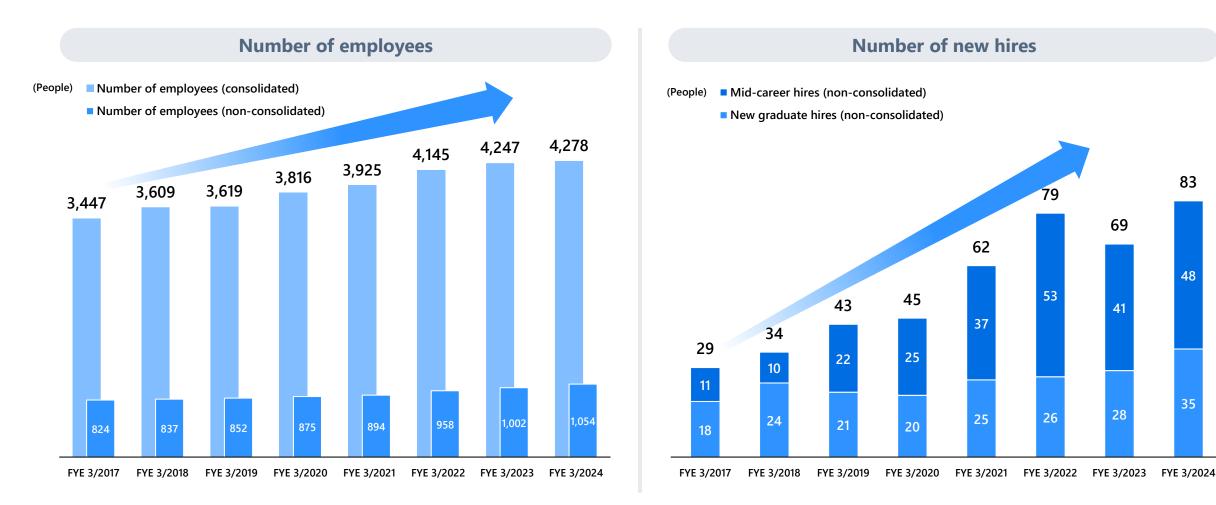
\*4. The percentage of respondents giving the highest rating for each guestion (on a 5-point scale) on job satisfaction and pride in the company in the Employee Attitude Survey.

# Strengthening the Management Foundation Human Res

Human Resources Investment

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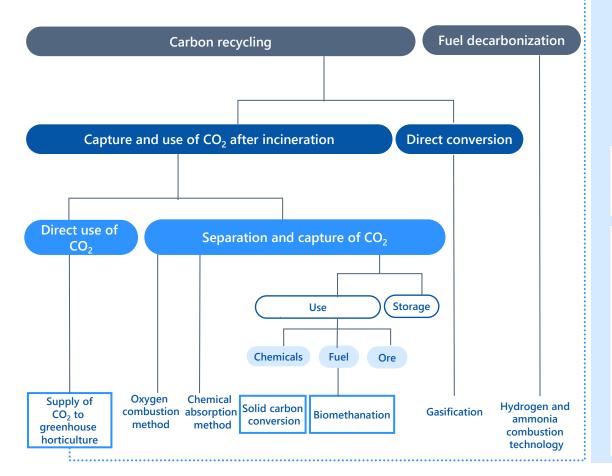
Strengthen hiring and training of human resources to pass on our greatest strength, our technological capabilities, and expand our resources. Continue hiring and training efforts in the Engineering Division, as well as the Construction and Maintenance divisions.



## Strengthening the Management Foundation R&D

In addition to fine tuning existing technologies, we will strengthen R&D focusing on CCUS and carbon recycling technologies to realize a decarbonized society.

**R&D** roadmap for decarbonization technologies



### Examples of our technology/R&D

#### Agricultural use of CO<sub>2</sub> from flue gas purification

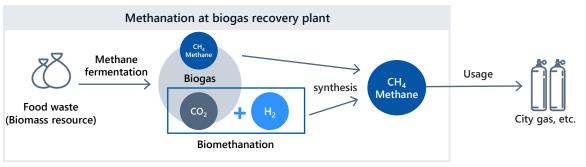
- Delivered a t-CarVe<sup>®</sup> CO<sub>2</sub> supply system with a customer (SARA Inc. and F Bit Communications Corp.) that directly utilizes purified flue gas generated from burning woody biomass as fuel, after removing components harmful to plant growth, in a green house.
- Launched joint demonstration experiment with AEON AGRI CREATE Co., Ltd. at the Machida City Bio Energy Center (Machida City, Tokyo) to utilize CO<sub>2</sub> from combustion gases generated at the waste treatment facility in strawberry cultivation.

#### Solid carbonization

Technology for recovering  $CO_2$  from the flue gas of waste incineration facilities as solid carbon. Can be used as a raw material for chemicals, such as carbon black.

#### **Biomethanation**

Technology that supplies hydrogen to biogas generated by methane fermentation of food waste and converts  $CO_2$  into methane using microorganisms. Methane can be used as fuel for city gas, etc.



"Offensive" digital transformation (DX) has had some success in areas such as automated plant operation (AI development). We will continue efforts to create new value for further strengthening our competitiveness. Regarding "defensive" DX, the entire Group will further promote digitalization to improve productivity and ensure smooth technology succession with limited resources (human resources and time).

**Establishment of competitive advantage using "offensive" and "defensive" approaches** 

#### **Offensive DX**

#### Digitalization of products and services

Providing new value to customers through the use of digital technology in plant construction, operation, and other businesses

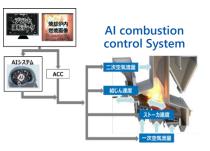


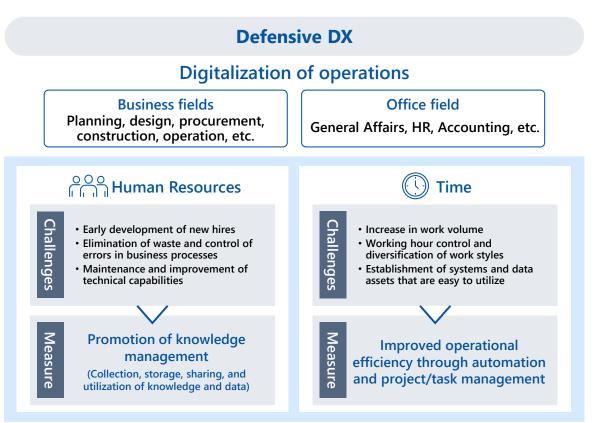
Automatic sorting of glass bottles



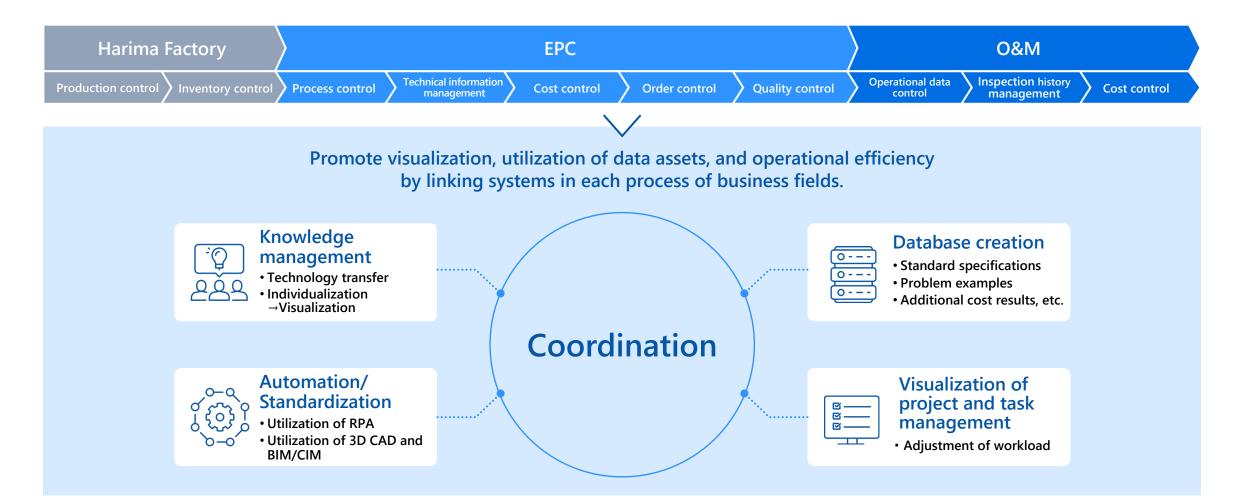
**Solution Lab** 





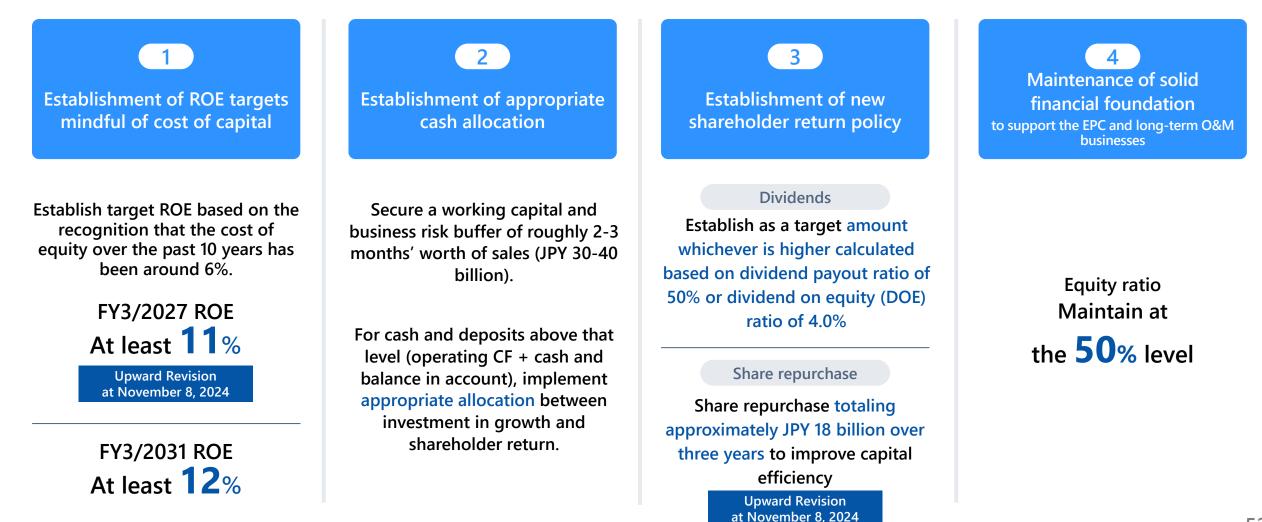


We are systematizing (visualizing) technical data, plant data, problem information, etc. as data assets to promote knowledge management.



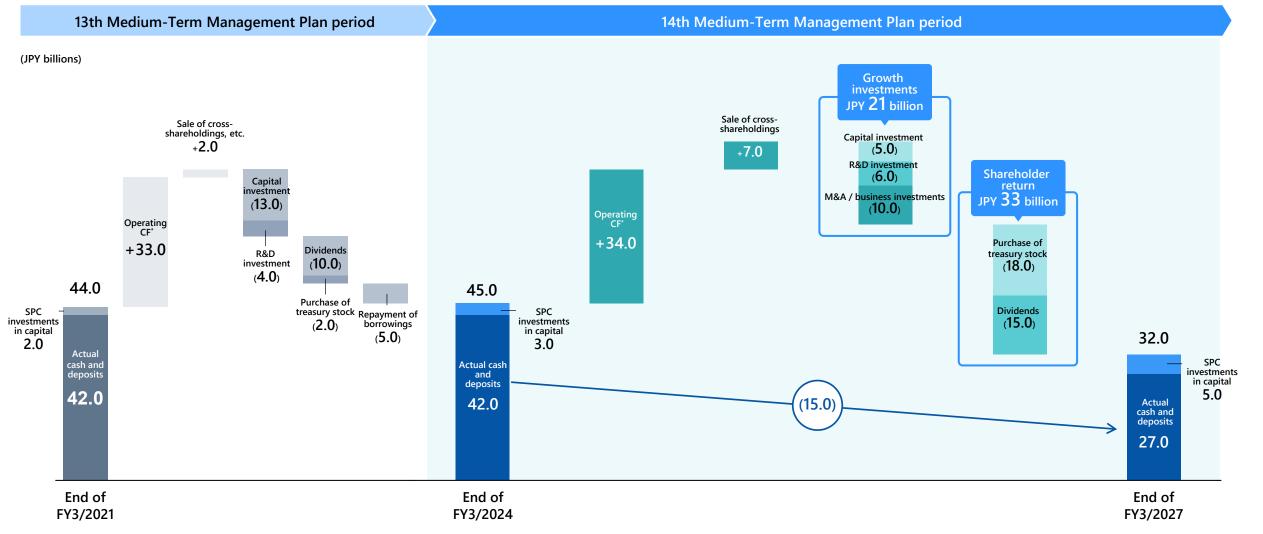
# **Capital Policy**

We will establish a quantitative policy based on an analysis of the current situation related to cost of capital and stock price. We will enhance corporate value by balancing business growth and shareholder returns that meet market expectations with a solid financial foundation.





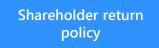
Focus on growth investments and shareholder returns and execute appropriate cash allocation to increase corporate value.



\*Before R&D expenditure

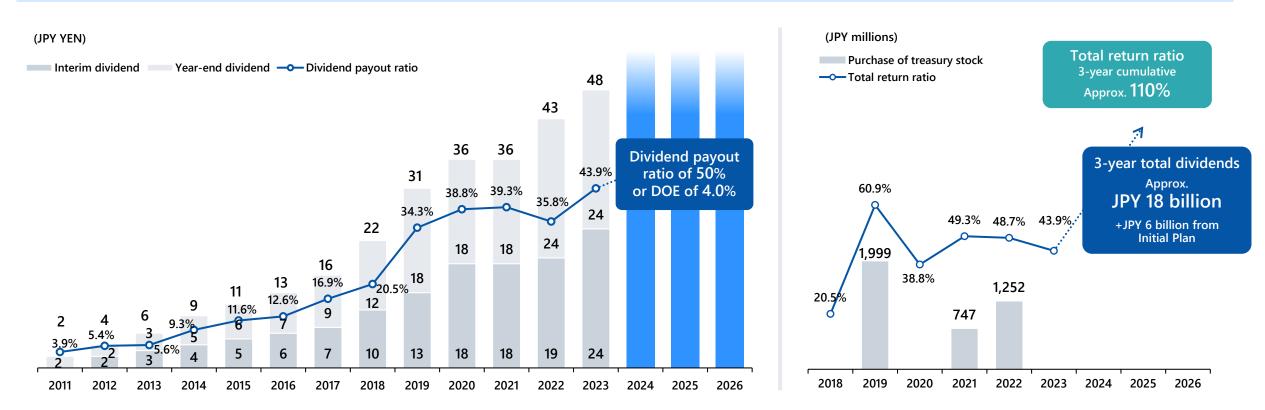
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Takuma will work to improve the efficiency of its balance sheet, primarily by reducing cross-shareholdings, and use the cash generated to return profits to shareholders, such as dividends and purchases of treasury shares. As a result, shareholder returns over the three-year period of the 14th MTP are expected to be a total of 33 billion yen, with a total return ratio of approximately 110%.



Enhancing shareholder returns and improving capital efficiency through stable dividends and share repurchase
 Establish as a target amount whichever is higher calculated based on dividend payout ratio of 50% or dividend on equity (DOE) ratio of 4.0%

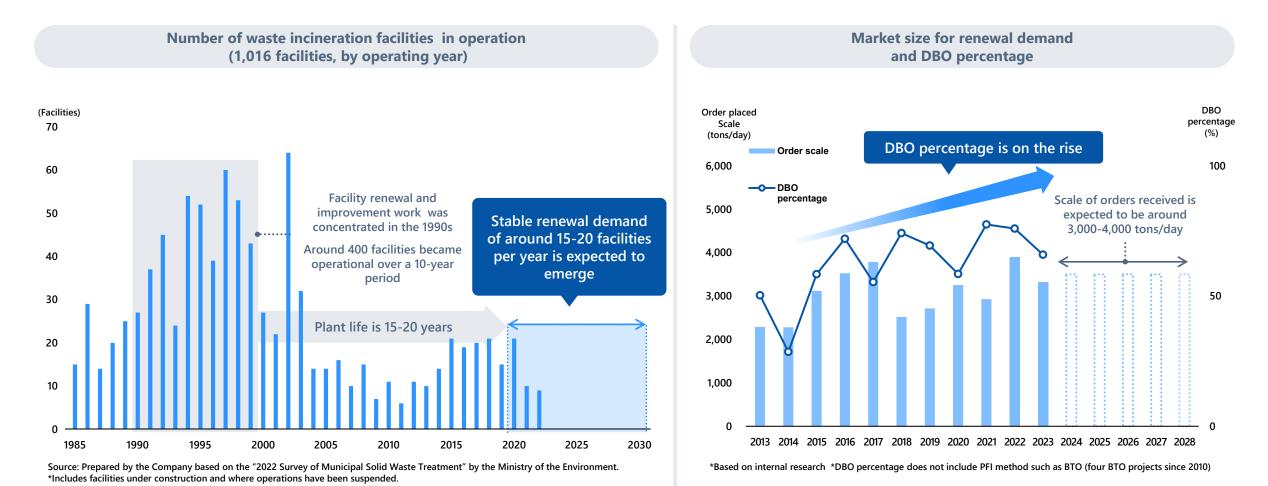
3 Share repurchase totaling approximately JPY 18 billion over three years to improve capital efficiency



Domestic Environment and Energy Municipal solid waste treatment plants

Business Environment

Demand for renewal and service life improvement will continue due to the aging of waste treatment facilities. We expect renewal demand to continue for the time being. DBO orders are on the rise utilizing know-how from the private sector. We expect this to continue.

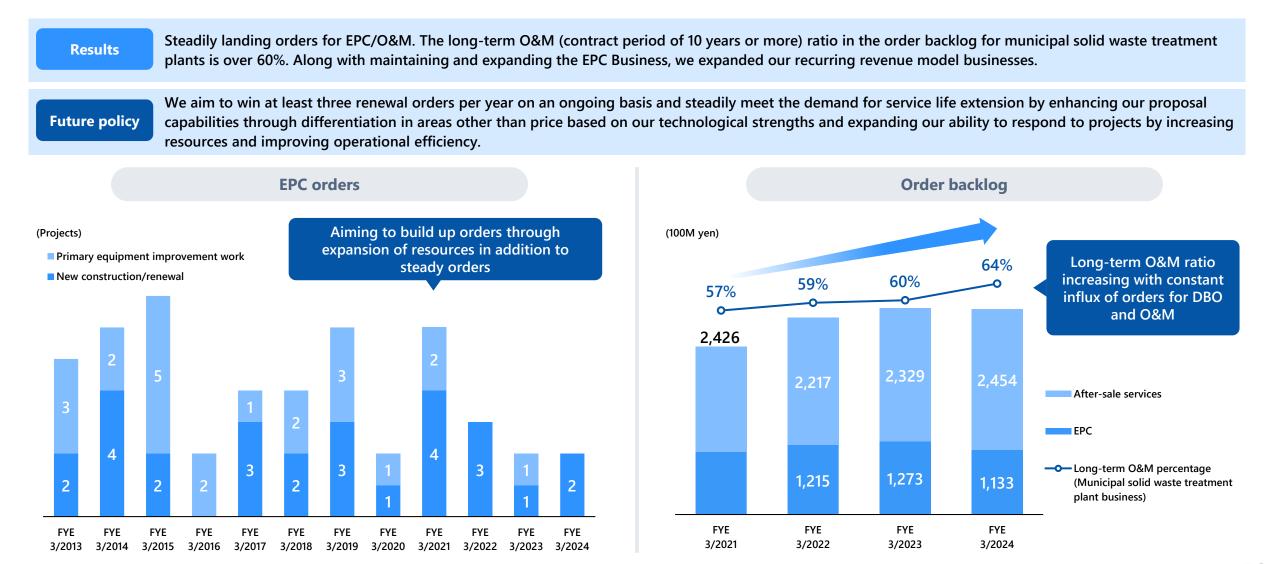


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Domestic Environment and Energy Municipal Solid Waste Treatment Plants

Business Strategy TAKUMA

Focus on winning ongoing orders through comprehensive proposals tailored to diversifying needs.



Domestic Environment and Energy Municipal Solid Waste Treatment Plants

Business Strategy TAKUMA

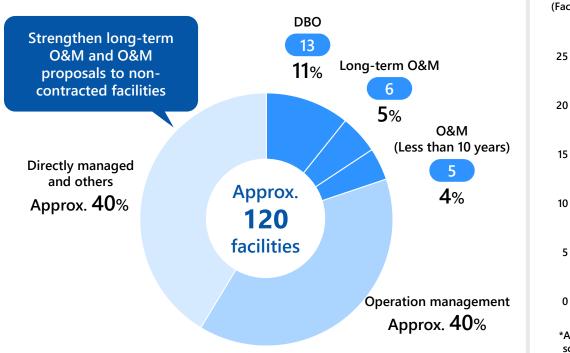
Aim for sustainable growth of recurring revenue model businesses by strengthening O&M proposals and proposals for regular maintenance work.

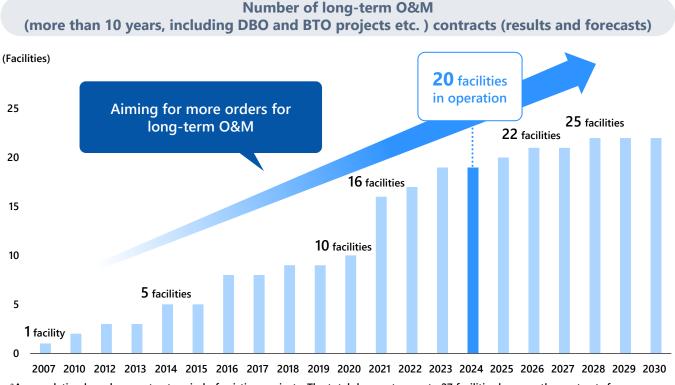
Results The Company received orders for long-term O&M (contract period of 10 years or more) at 27 facilities (as of the end of FY3/2024). By the end of FY3/2025, 20 of the facilities under contract will be in operation. Operations at the remaining facilities will be launched one after another. Orders at non-contracted facilities also increased as a result of promoting proposal-based sales.

**Future policy** 

Through proposal-based sales, we will maintain and expand orders for after-sale services every year. In addition, we aim to achieve growth of recurring revenue model businesses by enhancing O&M proposals for non-contracted facilities and initiatives to reduce costs through data utilization.

#### Number of municipal solid waste treatment facilities in operation at beginning of FY2024





\*Accumulation based on contract period of existing projects. The total does not come to 27 facilities because the contracts for some projects will expire before others begin operations.

### **Situation by Segment Energy Plants**

**Domestic Environment and Energy** 

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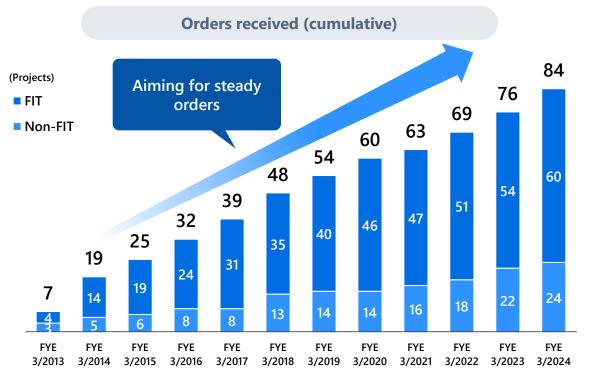
We contribute to stabilizing our customers' businesses and maximizing their revenues through biomass power plants and large-scale plants that supply electricity and heat to their factories.



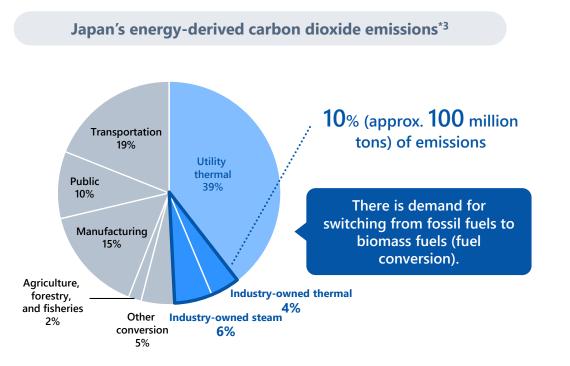
Demand for small- and medium-sized biomass power plants, mainly from domestic fuels (such as unused timber), continues, driven primarily by policies to promote renewable energy and decarbonization. In particular, we expect to see demand for renewal of existing plants (fuel conversion) in the paper and lumber industries and demand for new small- and medium-sized power plants (FIT, Non-FIT, FIP).

**Future policy** 

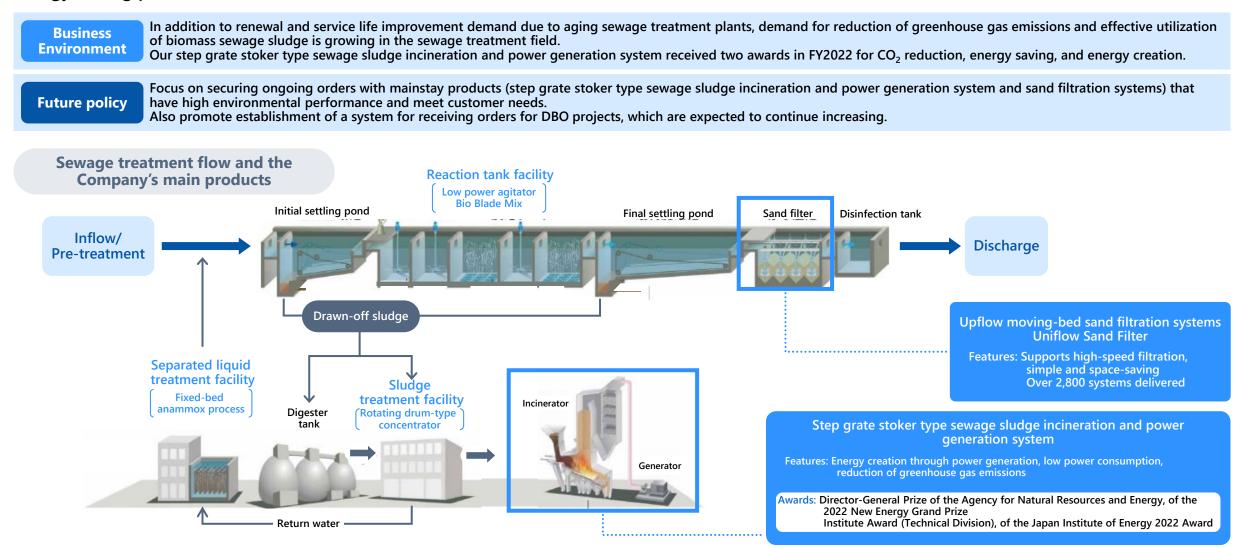
In the EPC Business, the aim is to continue winning orders, particularly for small- to medium-sized biomass power generation plants, including renewal of existing plants and proposals for new power plants. In after-sales service, we aim for recurring revenue model business growth by proposing solutions for energy savings, functional improvement, and service life extension, in addition to maintenance.



\* Source: 2022 results from "Comprehensive Energy Statistics" by Ministry of Economy, Trade and Industry



Contribute to the effective use of energy and decarbonization of sewage treatment facilities through greenhouse gas-reducing and highly energy-saving products.



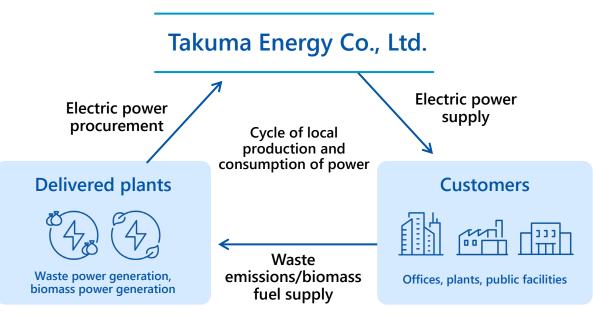
Main recent projects

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Contribute to stabilizing customers' electricity rates and reducing greenhouse gas emissions through the procurement and supply of electricity generated from renewable energy and non-fossil fuels.

Business Environment	Demand is increasing for renewable energy and CO <sub>2</sub> -free electricity for decarbonization. Demand is also increasing for local production of electric power for local consumption.
Future policy	Leverage strength in stable power procurement to promote the supply of electric power to areas near power sources and to environmentally conscious customers. We will also promote expansion of our lineup of related services such as supply and demand management services and environmental value transactions to expand our customer base.

**Example of services provided** (local production of electric power for local consumption)

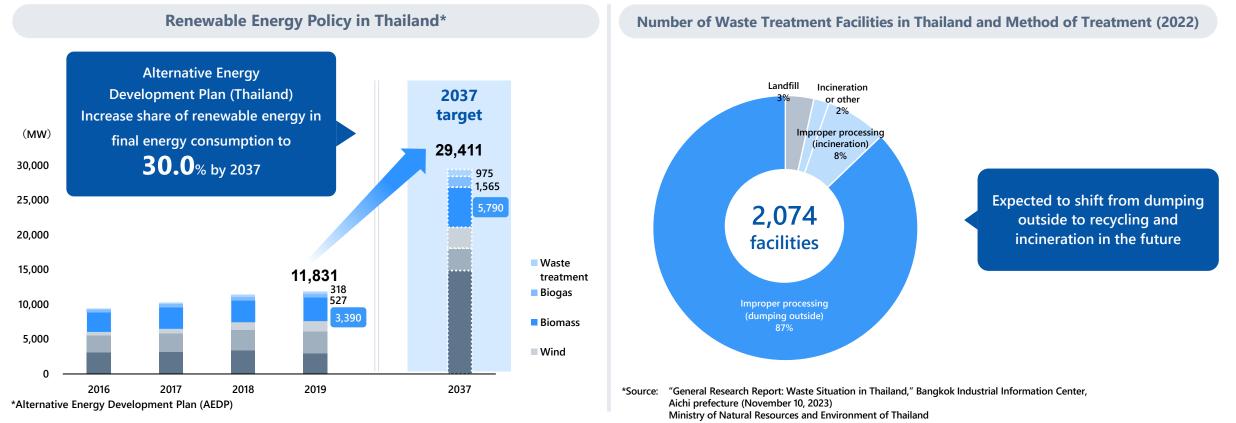


	Provided to	Main supplier	Start
Local production for local consumption/ supply of CO <sub>2</sub> -free electric power	Kunohe Village, Iwate	lwate-Kenpoku Clean Co., Ltd.	Apr 2022-
	Imabari City, Ehime	Imabari City Clean Center	Apr 2022-
	Machida City, Tokyo	Machida City BioEnergy Center	Apr 2022-
	Kurume City, Fukuoka	Miyanojin Clean Center	Jan 2023-
	Kitahiroshima-cho, Hiroshima	Kawakoda Micro Hydro Power Plant *Not delivered by us	Aug 2023-
	Fujisawa City, Kanagawa	Rikyuu Co., Ltd.	Mar 2024-
	Osaka City, Osaka	Nishiyodo Incineration Plant	Apr 2024-

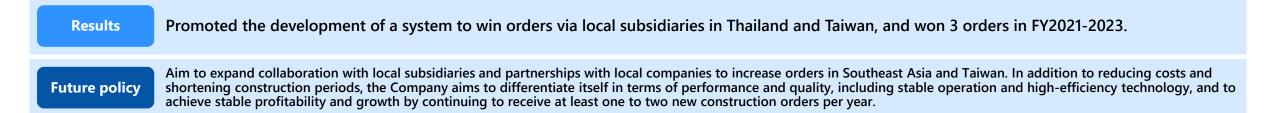
Business Environment

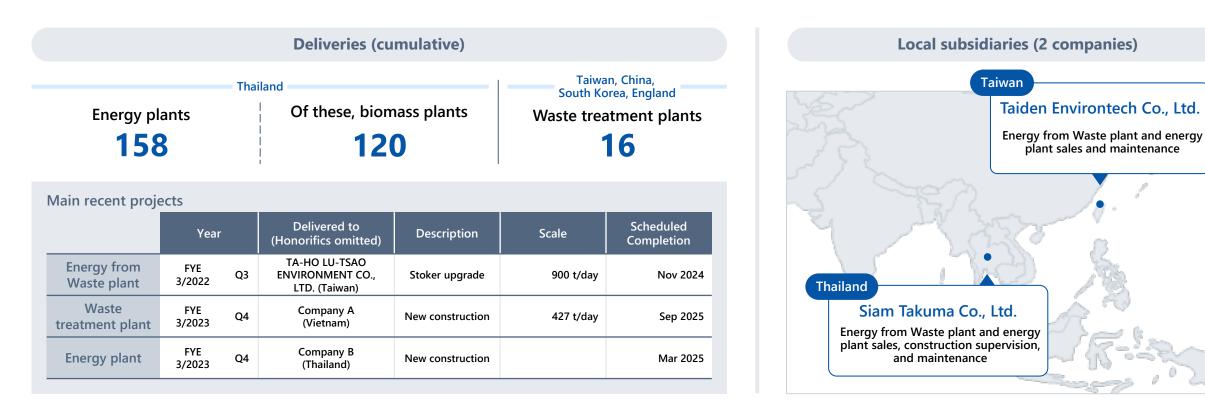


- In addition to population and economic growth, the trend toward decarbonization in Southeast Asia has increased demand for biomass power generation and Energy from Waste plants.
- In Thailand, demand for Energy from Waste and for biomass power generation, including fuel conversion, is expected to grow against the backdrop of government
  promotion of renewable energy.
- In Taiwan, demand for facility renewal and service life extension is expanding due to the aging of Energy from Waste plants.
- In Taiwan and Vietnam, the need for in-house processing of industrial waste generated in manufacturing plants is also increasing.



Focus on securing continuous orders for biomass power generation plants and Energy from Waste plants and improving the system.





Package Boiler Business / Equipment and Systems

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### **Package Boiler Business**

Domestic market has matured, but we expect a certain level of demand for renewal and other work to continue for the time being.

In addition to new heating businesses (hydrogen, biomass, electric heat sources, decarbonized products, etc.), the Company aims to expand the scale of orders by expanding its overseas business in Southeast Asia, particularly in Thailand.

→ See "Topics of Package Boiler Business" on P.17

#### Group company



Nippon Thermoener Co., Ltd.

Manufacture and sale of and after-sale services for steam boilers, hot water heaters, and other heating products



### **Equipment and Systems**

#### **Building equipment business**

Strong demand is expected to continue due to urban redevelopment and new construction and renewal of medical and welfare facilities. The Company will continue to further strengthen its sales and construction capabilities by securing and training human resources, thereby maintaining and expanding the scale.

## Semiconductor industrial equipment business

The semiconductor and electronic device manufacturing equipment market is growing over the medium to long term due to the trend toward digitalization. Aim to maintain and expand the scale by providing products that create and maintain a highly clean environment required for the manufacturing process.



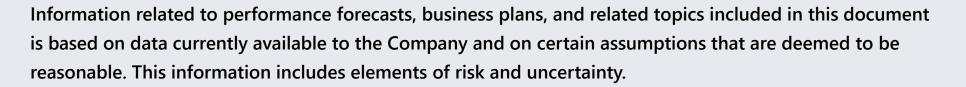
**Group companies** 

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# Terminology



Term	Definition
EPC	Engineering, procurement, and construction; one approach we use in our plant construction business.
O&M	Operation and maintenance; one approach we use in our plant operation business.
DBO	Design, build, and operate; one approach we use in our plant construction and operation businesses (EPC + O&M).
DBM	Design, Build, and Maintenance. These projects take the form of EPC + long-term maintenance agreements.
BTO	Build, transfer, and operate; one approach we use in our plant construction and operation businesses (EPC + O&M).
Primary equipment improvement project	A method that aims to restore functionality and extend the lifespan of facilities by updating and improving deteriorated equipment while maintaining the existing buildings, etc. which have a long useful life, from the standpoint of reducing life cycle costs.
FIT	A feed-in tariff for renewable energy.
FIP	Feed-in Premium; a system in which a certain premium (subsidy amount) is added to the price at which electricity is sold in the market.



Please note that actual performance may diverge significantly from these forecasts for a variety of reasons.

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