

A decorative network diagram in the top-left corner, featuring a cluster of interconnected nodes. Some nodes are solid blue circles, while others are white circles with blue outlines. They are connected by thin grey lines, forming a complex web structure.

Investor's Guide

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a cluster of interconnected nodes, with some solid blue circles and others white circles with blue outlines, connected by thin grey lines.

Torishima is a pump manufacturer established in 1919.

We will continue to evolve, aiming to be “a company that is indispensable to society” while taking over passion and traditional skills since its foundation.

Philosophy

**Never lose the public trust,
even if monetary loss proves unavoidable**

Mission

**Passion for our Products and Services.
Evolving to meet demands of an ever changing world.**

Purpose

**Drawing on Torishima’s strengths and technology,
we will contribute to sustainable society
by connecting lifestyle, lives and the future.**

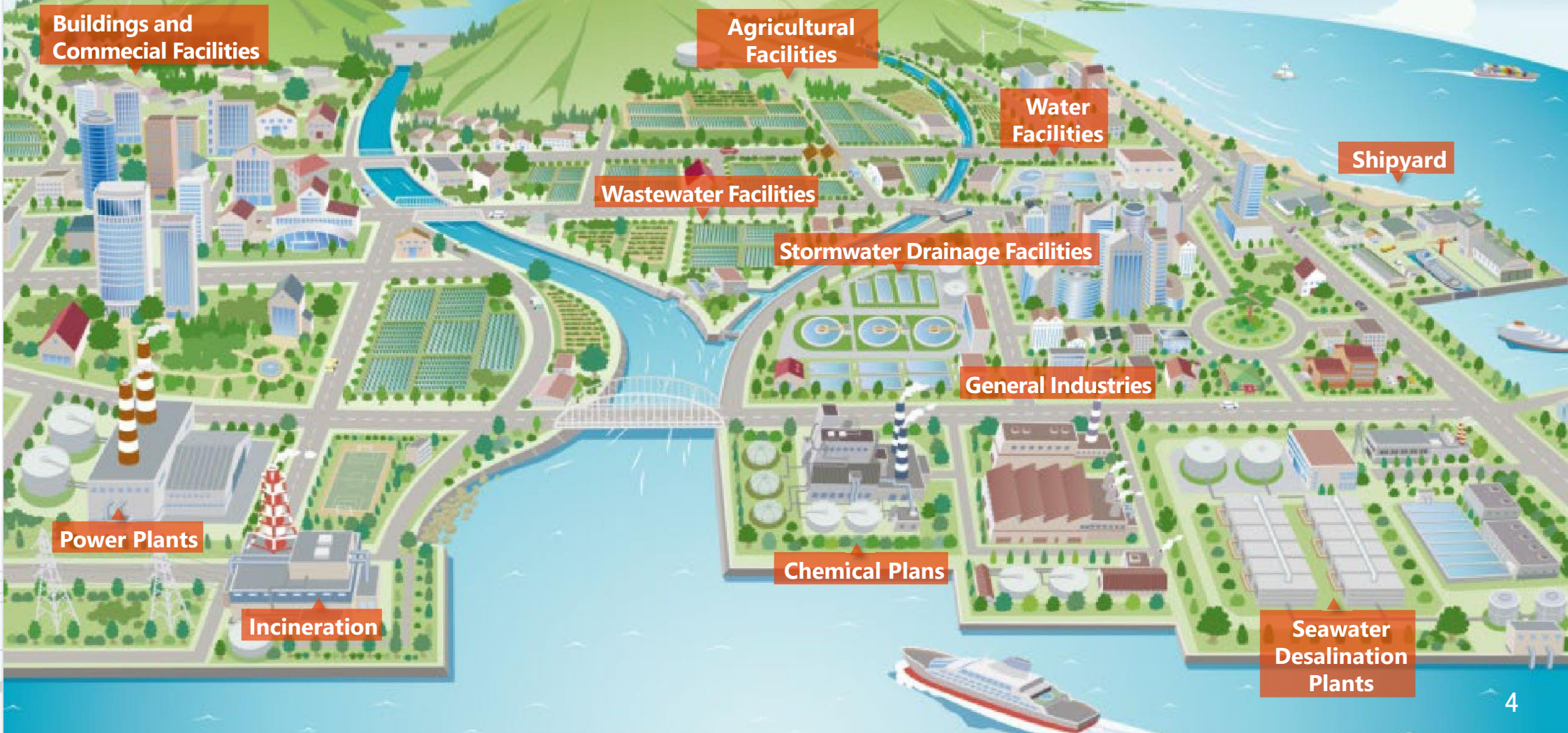
Vision

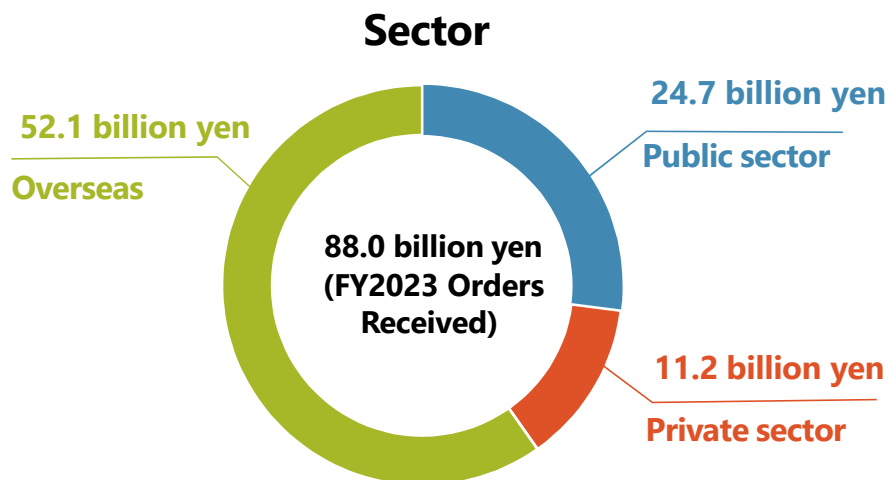
**TEAMWORK
DIVERSITY
PROFESSIONAL
CLARITY
ENTHUSIASM
INNOVATION
EVOLUTION**



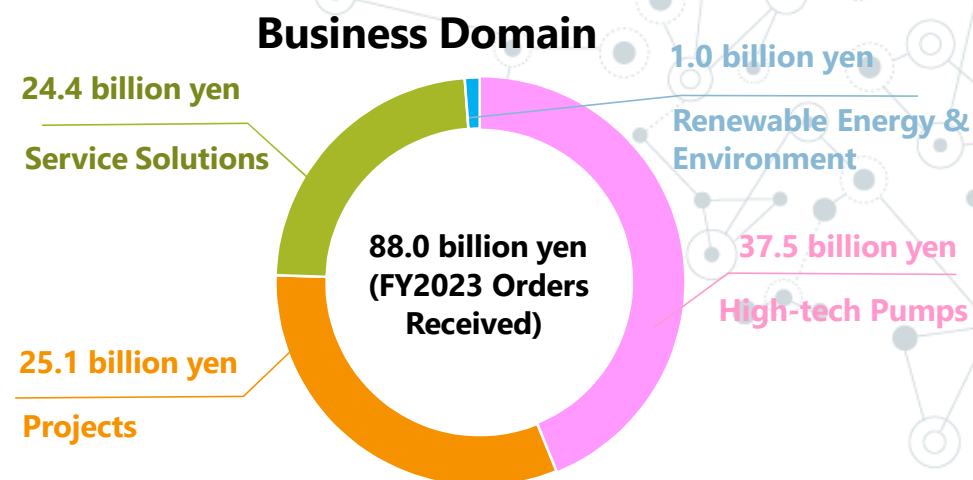
Our Business

Pumps are **the beating heart of society.**
They support **our everyday lives** from behind the scenes.



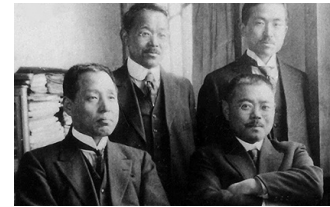


Public sector	<ul style="list-style-type: none"> EPC services for national and local governments in Japan for water and wastewater facilities, drainage facilities, irrigation facilities, etc. (engineering, procurement, construction and testing)
Private sector	<ul style="list-style-type: none"> Supply pumps and services for power plants in Japan (thermal, biomass, geothermal) Supply pumps and services for various factories in general industries, building equipment, commercial facilities, etc.
Overseas	<ul style="list-style-type: none"> Overseas seawater desalination plants, thermal power plants, water and wastewater facilities, irrigation facilities, etc.



	Japan	Overseas
High-tech Pumps	<ul style="list-style-type: none"> Large high-pressure engineered pumps for power plants (thermal, biomass, geothermal) Standard pumps (The Eco-pumps) for various factories in general industries, building equipment, commercial facilities, etc. 	<ul style="list-style-type: none"> Large high-pressure engineered pumps for seawater desalination plants, water facilities, power plants, and irrigation facilities
Projects	<ul style="list-style-type: none"> EPC services for national and local governments in Japan for water and wastewater facilities, drainage facilities, irrigation facilities, etc. (public sector) 	<ul style="list-style-type: none"> Contracting business for plants related to pumps, including machinery and electrical engineering and construction (EPC business)
Service Solutions	<ul style="list-style-type: none"> Pump overhaul, part replacement, spare equipment, energy-efficiency proposals, etc. 	
Renewable Energy & Environment	<ul style="list-style-type: none"> Maintenance of wind power generation equipment 	—

Since its founding, the company has laid the foundation that has made Torishima known for its technologies, and has grown to become one of three major pump companies in Japan.



1919
Founded in Torishima-cho, Nishi-ku (currently Konohana-ku), Osaka, Japan, by a group of pump engineers including Shusuke Takeo.



1927
Set the foundation of Torishima becoming known for its technologies by being recognized as No. 1 in Japan for agricultural-use pumps. However, business stagnated due to the turmoil during and after the war.



1949
Former banker Ryuhei Harada joined the company. He restructured the Company's management with the firmly-held belief that "the pump business will grow in the future." He was the Company's patriarch who turned Torishima into a 100-year-old company.



1958
Formed a technical alliance with a world-class pump manufacturer as part of internationalization

From 1975
Increased pump orders for seawater desalination plants in the Middle East and other overseas plants.

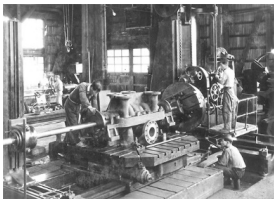


1985
Opened its first overseas manufacturing plant in Indonesia

(Millions of yen)



Business expanded with the development of Japan



1952
Boiler feed pumps upgraded to higher pressure in line with the shift to larger, higher-pressure power plants.



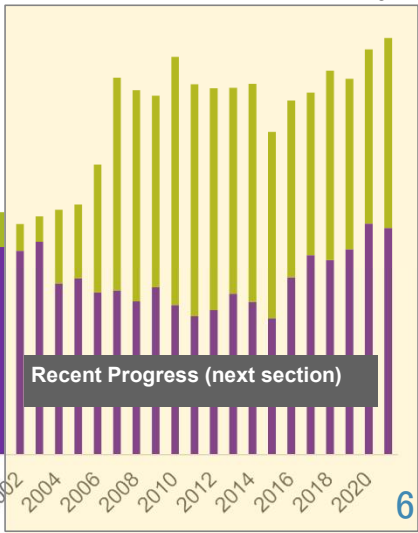
1955
Received an order for ultra-large pumps for a drainage pumping station, the largest of its kind in the East, and received an award from the Ministry of Agriculture, Forestry and Fisheries.



1978
Established its first overseas office in Singapore.

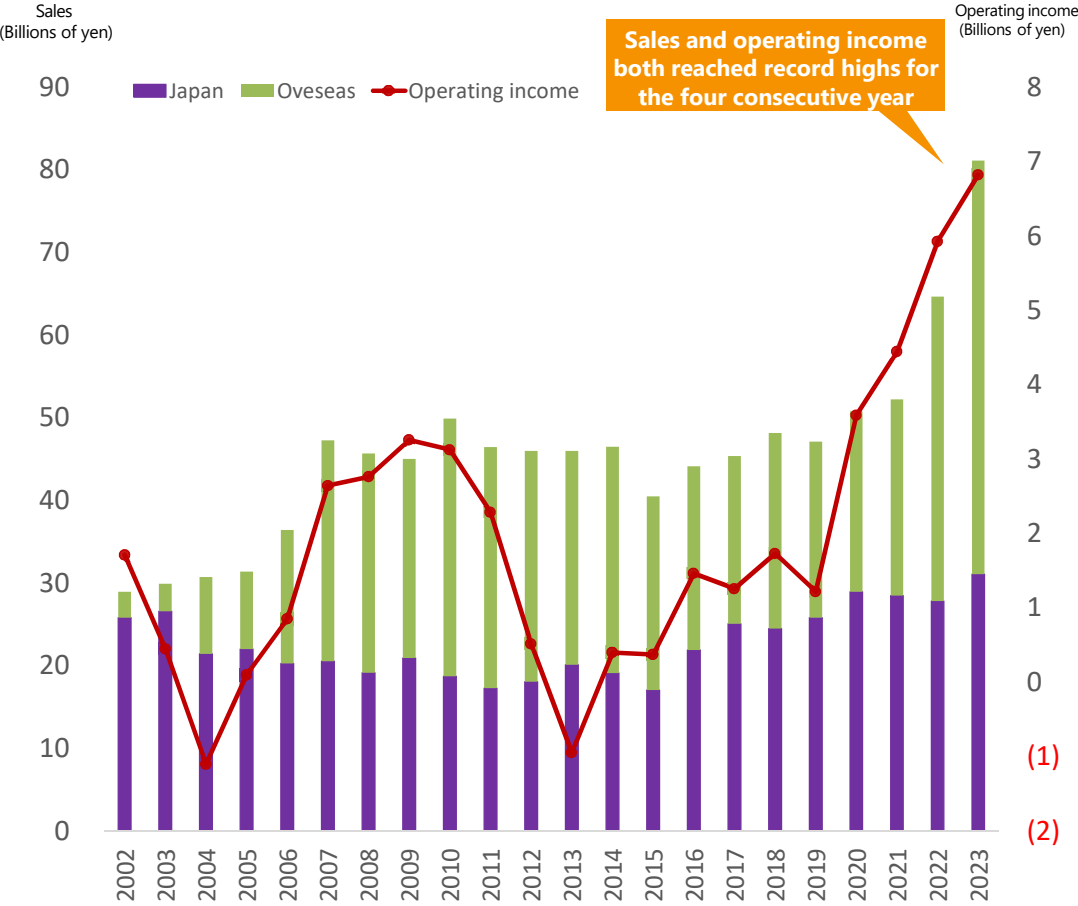


1981
Listed on the First Section of the Tokyo Stock Exchange.



Recent Progress over the Past 20 Years

(Disruption Caused by the rapid growth and Strengthening of Corporate Structure)



2002 Launch of Torishima Global Team (TGT)

Since the beginning of the 2000s, public-sector projects have been scaled back due to financial restructuring in Japan. With the Japanese population approaching its peak, the Company therefore established the Torishima Global Team (TGT). It began full-scale overseas expansion to grow further

Favorable conditions led to rapid growth in overseas sales

As the market for seawater desalination in Middle Eastern countries boomed, partly due to soaring oil prices, Torishima rapidly expanded our business in the core areas we excel in by winning EPC orders for pumps for seawater desalination plants and other water supply plants. Although the overseas ratio was around 10% when TGT was launched, it quickly rose to the 50% mark.

Disruption in design and production due to rapid growth, lowering profit margins

However, the organization could not cope with the rapid growth and design and production were disrupted. Unable to respond quickly and flexibly to customer demands in various countries worldwide, mistakes were made, and costs and expenses increased. This coincided with the appreciation of the yen to below 100 yen against the US dollar (from 2009 to 2013), so the Company was unable to remain profitable despite receiving orders, leading to a vicious cycle of further disruption as more orders continued to flow in.

2012 Restructuring(Promoted fundamental reforms) of manufacturing infrastructure

To further grow as a truly global company, the Company determined that it was necessary to rebuild the manufacturing base, even if it meant temporarily limiting the number of orders received. The Company launched a strategy to strengthen its corporate structure by introducing an integrated system and BOM, standardizing products, improving efficiency in design and production, and thoroughly managing profitability from the time of orders are received.

Service business expansion

At the same time, the Company focused on the service business, which has higher profit margins than sales of new pumps. By expanding its offices to Asia, the Middle East, Europe, and the U.S., TGT has increased its service ratio from 10% at launch to 30% now.

Efforts were successful and corporate structure was strengthened



Strengths of Torishima

1. Advanced technical capabilities cultivated over more than a century of history

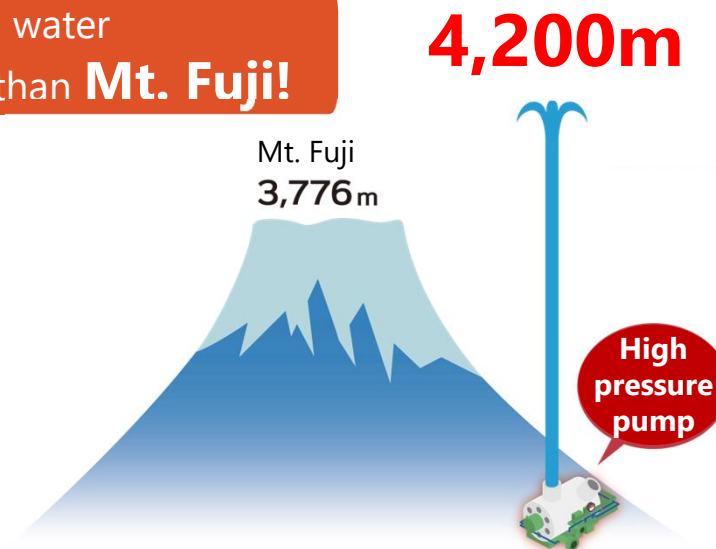
Despite the number of pump manufacturers worldwide, only a few can manufacture these extraordinary pumps. Torishima's strength is in large, high-pressure pumps used in water and wastewater facilities, power plants, and other facilities. For example, our pumps that can transfer tremendous amounts of water are so powerful that they can empty a 25-meter pool in five seconds. Our pumps with high pressure can pump water as high as 4,200 meters, and pumps that can operate in extremely harsh environments can operate at supercritical pressures at 350 degrees Celsius or higher. Torishima has delivered numerous pumps to more than 100 countries around the world.



Can empty a 25m pool in
5 seconds!

Can operate under supercritical pressure
at temperatures of **350°C** and higher!

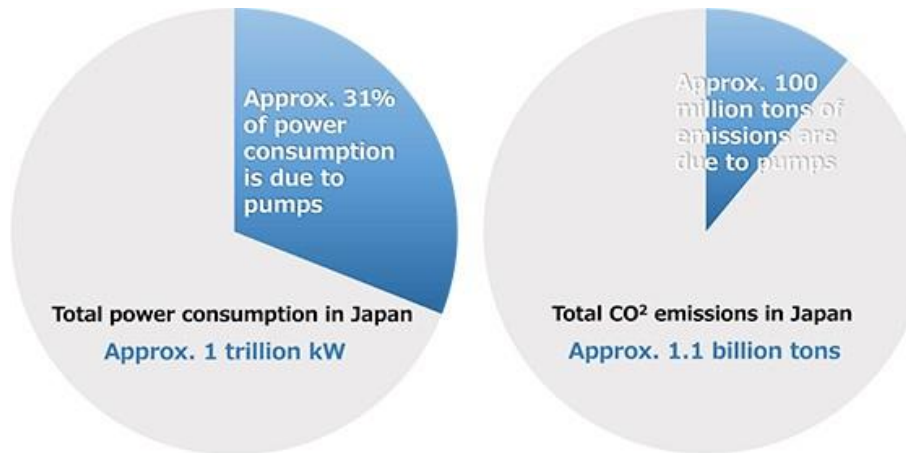
Can pump water
higher than **Mt. Fuji!**



2. Pursuit of higher pump efficiency and reduced power consumption and CO₂ emissions

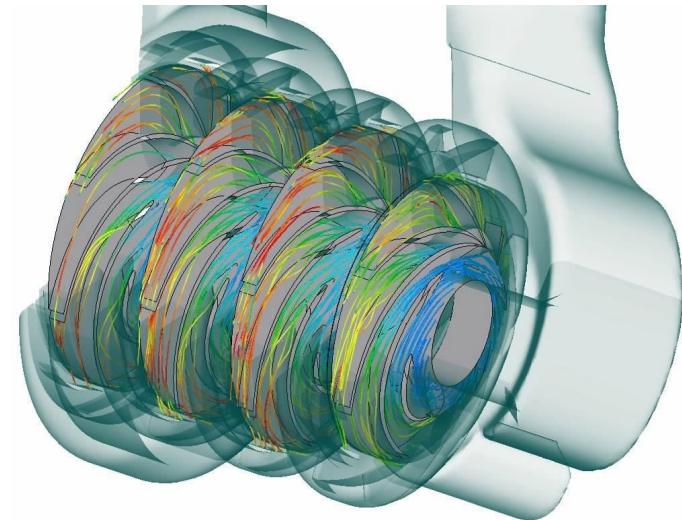
The electricity consumed by pumps used in industrial plants can be very significant. While energy-efficient models are now preferred in both cars and home appliances, the pump industry has seen vigorous pursuit of technological advancements to make pumps more energy efficient for many years. Improving pump efficiency by even 0.1% can lead to running cost savings of millions or tens of millions of yen in electricity expenses. Leveraging the latest in CFD (Computational Fluid Dynamics) analysis, Torishima sought to improve pump efficiency through design that allow water to flow through pumps without energy loss. This can help reduce power consumption and CO₂ emissions for entire plants. Pumps are machines with high power consumption. In other words, there is significant room for energy savings.

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Approx. 31% of power consumption is due to pumps Total power consumption in Japan Approx. 1 trillion kW
Approx. 100 million tons of emissions are due to pumps Total CO₂ emissions in Japan Approx. 1.1 billion tons
Enerdata, Global Energy Statistics Yearbook 2018 The Energy Conservation Center, Japan, FY2014 Report on the Infrastructure

Optimizing water flow using state-of-the-art fluid analysis



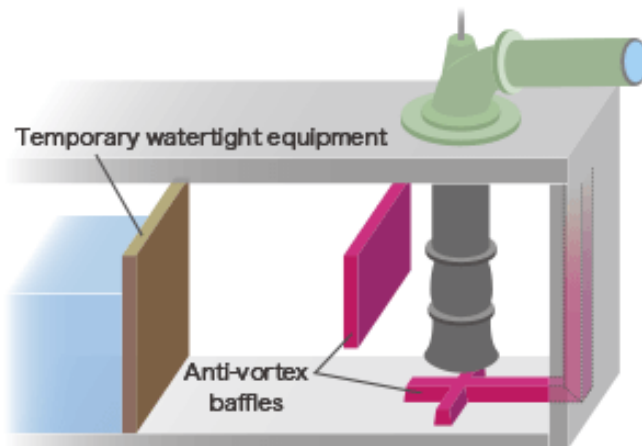
3. Pumps acting as climate change countermeasures also contribute to disaster prevention and mitigation

There is increasing demand to expand drainage capacity at drainage pumping stations to cope with the torrential rains that have been occurring more frequently in recent years.

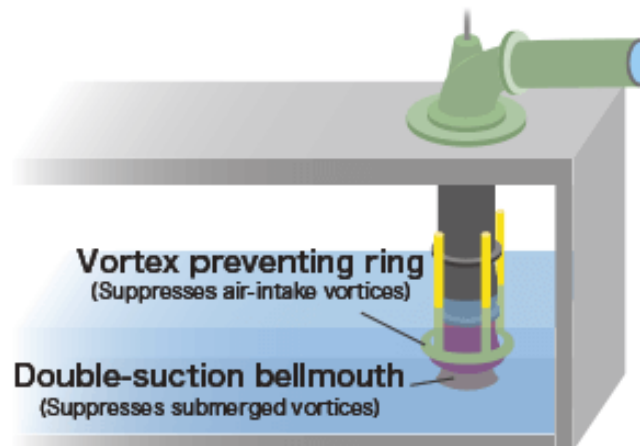
However, if the dimensions of existing water tanks remain the same, the flow velocity in the water tank will increase and lead to increased vortices that adversely affects pump performance.

Traditionally, preventing vortices meant installing anti-vortex baffles, a type of civil engineering structure, but installing them is costly and time-consuming. By suppressing vortices in the pump itself, Torishima eliminated the need for anti-vortex baffles, which lowers construction costs, ensures construction safety, and reduces construction time and pump downtime.

Conventional vortex control method



Torishima's unique vortex control method



See Videos (in Japanese)



4. Became a Global Niche Top (GNT) company with pumps for seawater desalination plants

While Japan is fortunate to be blessed with an abundant supply of fresh water, many countries suffer from severe water shortages. In those places, seawater desalination plants, which convert ocean water to fresh water, are an important part of the infrastructure. Since the 1970s, Torishima has supplied pumps to seawater desalination plants in countries in the Middle East and around the world. The Company has a high global market share and has been recognized as a Global Niche Top (GNT) company by Ministry of Economy, Trade and Industry 2020. Considering the reality that approximately two billion people still do not have access to safe and reliable drinking water, the demand for seawater desalination plants is expected to increase.

Supplied pumps to nearly all of the world's top 20 largest seawater desalination plants

1	Jubail 2 Replacement	Saudi Arabia	✓	2022
2	Taweelah	UAE	✓	2019
3	Shoaiba 3	Saudi Arabia	✓	2005
4	Al Jubail	Saudi Arabia	✓	2007
5	Ras Al-Khair	Saudi Arabia	✓	2010
6	Umm al Quwain	UAE	✓	2019
7	Soreq 2	Israel		2020
8	Jebel Ali M Station	UAE	✓	2007
9	Khobar 2 Replacement	Saudi Arabia	✓	2019
10	Soreq	Israel		2010
11	Shoaiba 3 IWPP Conversion	Saudi Arabia	✓	2022
12	Rabigh 3	Saudi Arabia	✓	2019
13	Jubail 3a	Saudi Arabia	✓	2020
14	Shoaiba 5	Saudi Arabia		2020
15	Jubail 3b IWP	Saudi Arabia	✓	202
16	Yanbu 3	Saudi Arabia	✓	2012
17	Magtaa	Algeria	✓	2009
18	Az-Zour North	Kuwait	✓	2014
19	Al Jubail Phase 2	Saudi Arabia	✓	1979
20	Shuweihat 2	UAE	✓	2009



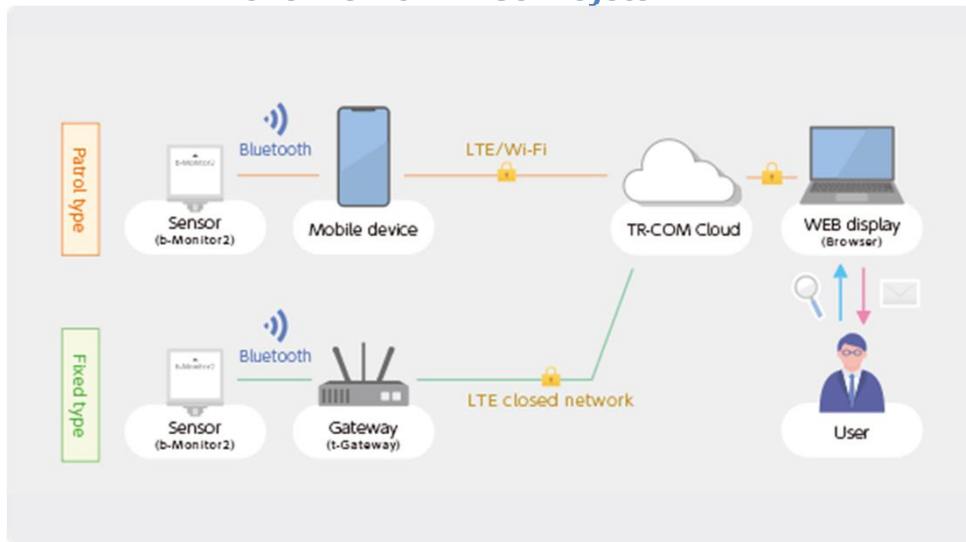
5. Promoting smart maintenance service with unique rotating machinery monitoring system

In response to labor shortage and technology succession issues caused by the low birthrates and aging societies, the manufacturing industry is promoting on-site use of smart maintenance services that utilize IoT and AI.

Leveraging its technology and experience as a pump manufacturer, Torishima has developed its own unique Rotating Equipment Monitoring System, [TR-COM](#). Through the ability to capture high-frequency waves of up to 10,000 Hz, it can perform failure prediction, which was difficult in the past. This makes it possible to offer solutions that only a pump professional can provide, such as analysis of failure causes, maintenance advice, and pump repair.

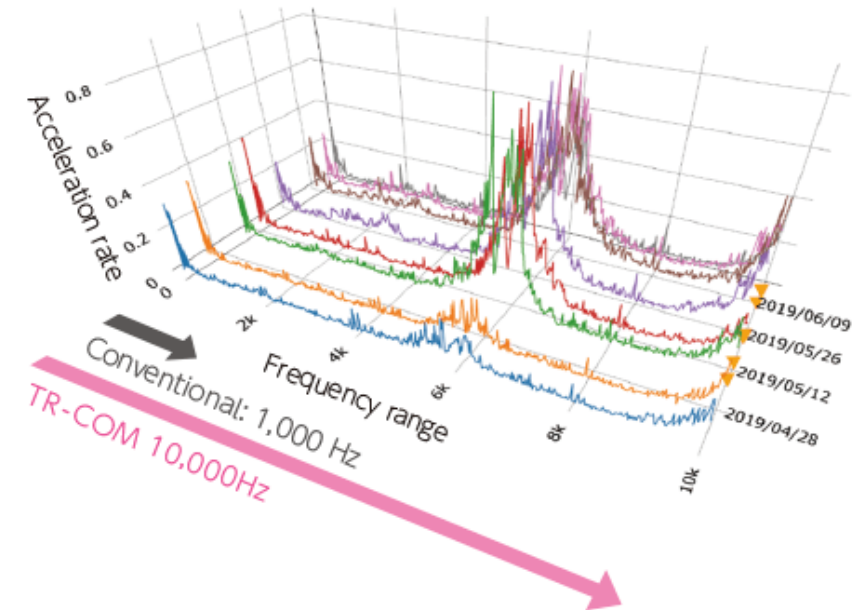
In 2022, it was also certified as a Smart Security Technology by the Ministry of Economy, Trade and Industry (METI) and in 2023. Additionally, the explosion-proof model was launched in 2023 and received a special award from the Ministry of Agriculture, Forestry and Fisheries at the 7th Infrastructure Maintenance Awards.

Overview of TR-COM system



Torishima's TR-COM has been adopted as a next-generation facility management model for the realization of Society 5.0, by Mitsubishi Estate Co.

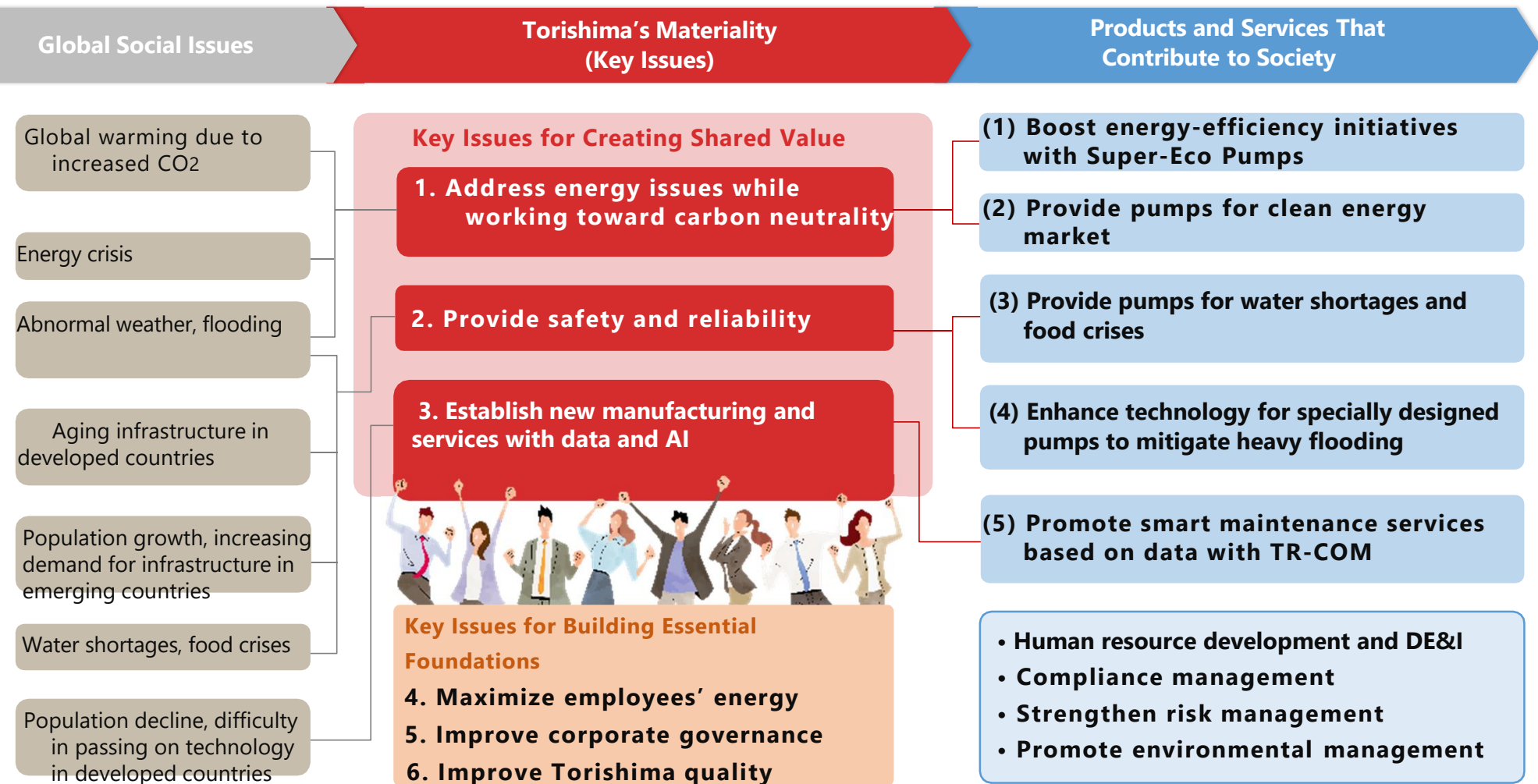
[Website of Mitsubishi Estate](#)



Observing vibrations every 1/10,000th of a second allows for advanced analysis!

Torishima's Materiality (Key Issues)

We will continue to contribute to solving social issues, aiming a company that is indispensable to society.

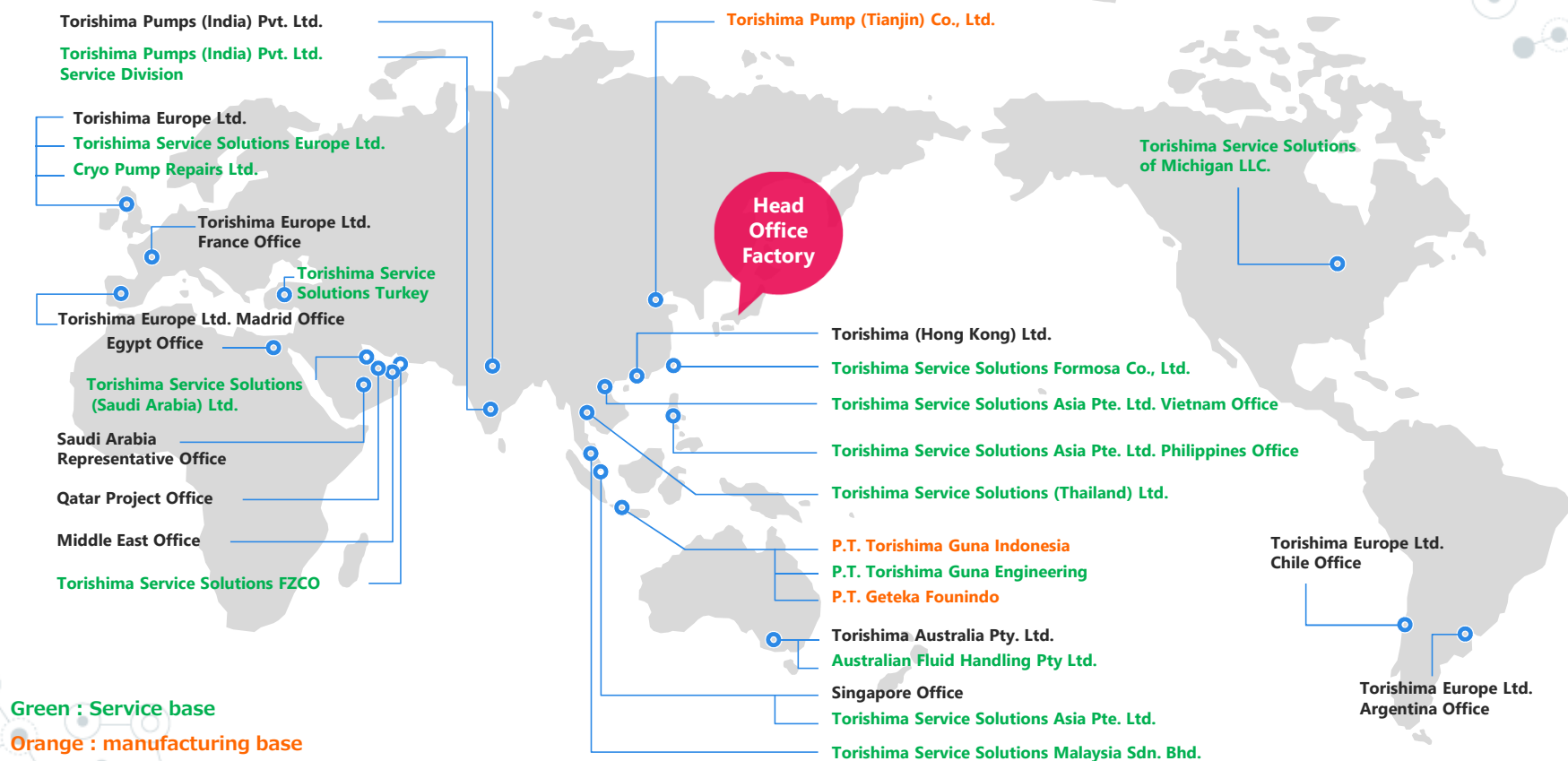


Our Aim

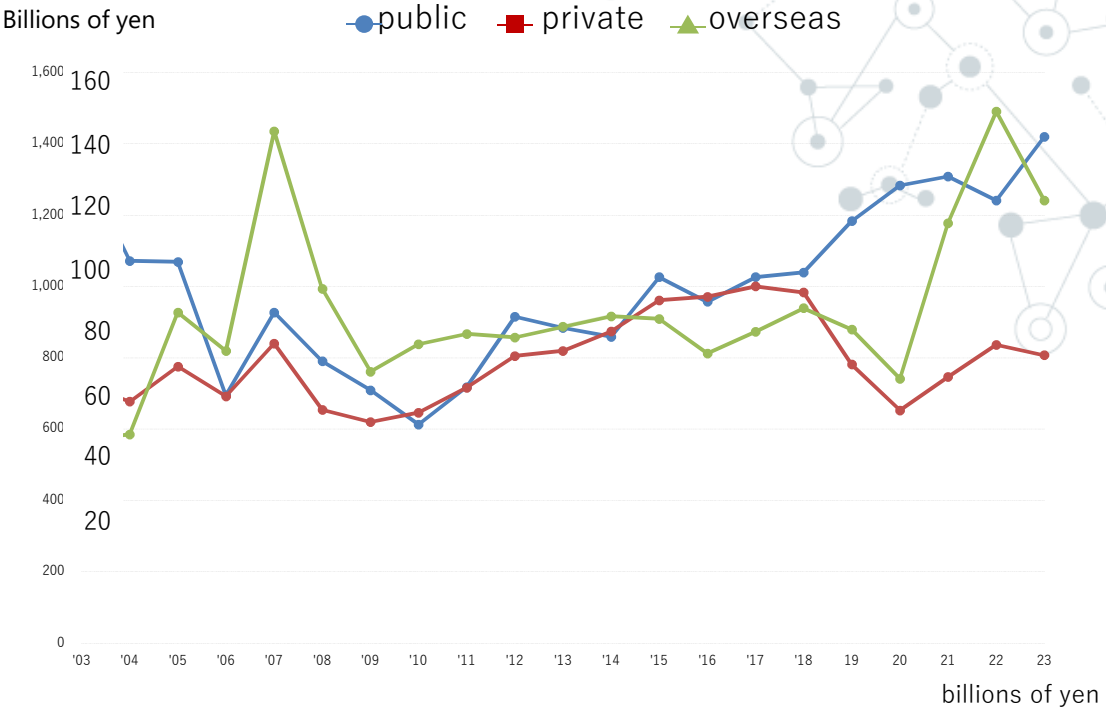
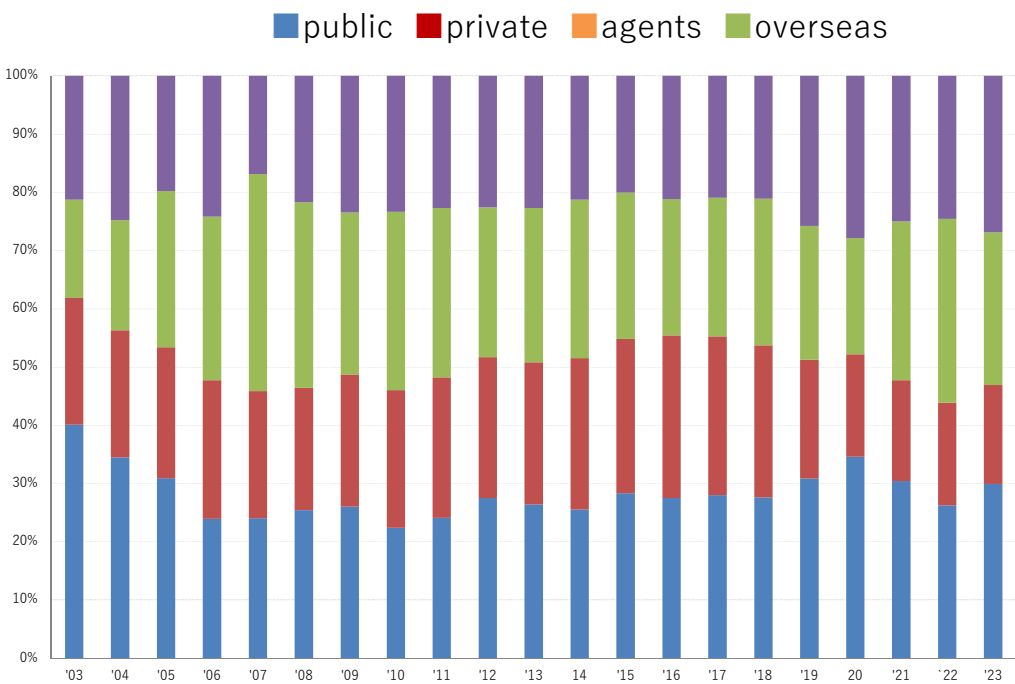
To be Indispensable to Society

Global Network

31 locations in 22 countries; network of 35 nationalities working together.



Pump Market in Japan



	'03	'04	'05	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	19	20	21	22	23	YOY
Public	135	107	107	70	93	79	71	61	72	92	88	86	103	96	103	104	118	128	131	124	142	114.4%
Private	73	68	78	69	84	65	62	65	72	81	82	87	96	97	100	98	78	65	75	84	81	96.5%
Overseas	57	59	93	82	144	99	76	84	87	86	89	92	91	81	87	94	88	74	118	149	124	83.3%
Agents	72	77	68	70	65	68	64	64	68	75	76	72	73	74	77	79	99	104	107	116	127	109.5%
Total	336	310	346	291	386	311	273	274	298	333	335	336	363	348	367	376	383	371	431	466	474	101.7%

Source: The Japan Society of Industrial Machinery Manufactures

Contact Us



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