



Torishima Pump Mfg. Co., Ltd.

# Torishima's **PURPOSE** for Society



## What's happening in society and the world right now?



## Our world is currently facing many challenges.

Climate change, demographic issues, energy crises, infectious diseases, poverty, and warfare.....

The challenges we are facing cannot be solved by one nation alone.

In particular, the environmental effects of the increase in CO<sub>2</sub>, including unusual weather conditions, global warming, ecosystem changes, and water resource depletion, are all having an impact on people's lives.

In the same way that the pandemic affected the world in ways nobody could have anticipated, there will continue to be new challenges moving forward.

**In the midst of all this,  
what is  
Torishima's purpose?**



## **Torishima's PURPOSE for Society**

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

As we address various issues occurring across the globe,  
we will find sustainable solutions that will enhance people's lives.  
It is for this purpose that Torishima was established.



I'm intrigued...  
What exactly does  
Torishima do?

## How can Torishima make a difference?

**We take pride in the fact that  
we have been supporting society by  
manufacturing pumps, the heart of society,  
ever since our founding 100 years ago.**

Of course, there's only so much that Torishima can accomplish alone.  
Nevertheless, Torishima can contribute in more ways than simply solving current social problems.

# How is Torishima fulfilling its purpose?



## Solving water and food shortages

Many countries are experiencing water shortages due to inadequate rainfall. Without sufficient water, agriculture will fail, resulting in a lack of food. What if it were possible to turn seawater into fresh water? We could reduce water shortages. We would harvest more crops. Healthy crops and water would save many lives.

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**Torishima is an industry leader in the manufacture of pumps for desalination. We are deeply involved in the production and supply of fresh water. Also, many of our pumps are operated domestically and overseas to pump water to and from farmland. As a result of our work in these areas, we contribute significantly to agricultural production.**

## Providing flooding countermeasures, disaster prevention, and mitigation

While some areas suffer from water shortages, others suffer from floods. Climate change has led to frequent heavy rains that cause extensive damage. In affected areas, there is an urgent need to mitigate these adverse conditions.

If a flood occurs,  
it can put  
your life in danger.



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**Torishima's large pumps demonstrate the power of our pump technology. Water is drained away quickly, protecting towns and farmlands from being flooded. In recent years, Torishima has also leveraged its proprietary technology to develop pumps that are resistant to flood damage. As a result of our efforts, we are making a significant contribution to disaster prevention and mitigation.**

A man with a beard and short dark hair, wearing a vertically striped button-down shirt, is shown from the chest up. He has a thoughtful expression, looking upwards and to the right with his hand on his head. A speech bubble is positioned above his head, containing text. The background is a light teal color with a decorative green and white checkered pattern behind the man's head and shoulders.

It's so hot these days...  
I wonder if  
global warming could be  
reduced somehow?

## Developing technology to counter the rise in CO<sub>2</sub> emissions

There are countless pumps in operation across the world. In fact, pumps account for 30% of all electricity consumed in Japan. As a result, pumps are responsible for a high volume of CO<sub>2</sub> emissions. Using energy-efficient pumps can greatly minimize the amount of these emissions.

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Since its founding, Torishima has consistently focused on manufacturing the world's most energy-efficient pumps. We are also committed to the "Go Green with Pumps" initiative to promote the use of these pumps.

## Converting to energy sources that do not emit CO<sub>2</sub>

There is growing opposition to fossil fuel-based power generation. In part, that's because it emits a significant amount of CO<sub>2</sub>. Although environmentally friendly energy sources like wind and solar power are available, these sources are insufficient to meet the world's energy needs. Consequently, the world is working diligently to change to power generation methods that do not emit CO<sub>2</sub> by substituting hydrogen and ammonia as fuels.

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**Torishima is playing a role in realizing a carbon-neutral society by utilizing our pumping technology cultivated over the years for the power industry to develop new pumps that operate on next-generation fuels.**



What are the clean energy sources of the future?



## Providing smart maintenance options

There has been a continuing decline in the population of Japan since 2010, and issues such as labor shortages, aging populations, and the passing on of skills are becoming increasingly problematic.

Part of the solution to this problem is implementing smart maintenance using DX.

By converting the operating conditions of equipment into data that can be monitored, it is possible to realize efficiency and labor savings in maintenance and management, as well as the transfer of knowledge and skills.



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**With the aid of IoT and AI, Torishima offers a system that collects and analyzes machine vibration data for early detection of equipment abnormalities. We help solve a variety of problems, reducing the burden of maintenance management.**



## How will Torishima contribute to society in the future?



## By continually improving our technology, we will help make a better world.

Technology is advancing at a remarkable rate, propelled forward by the human vision of “I want to make this a reality!”

It is now possible for cars to drive automatically, language barriers to be bridged with just a single app, and robots to do our household chores.

Plans are also being developed to create a living environment in space.

It may even be possible to build cities in the depths of the ocean.

A future that is unimaginable today will undoubtedly exist in thirty or fifty years' time.

How can Torishima fit into this future?

By developing water pumps for zero-gravity environments?

Creating a pump using materials never seen before?

Or, it may not even be a pump at all.

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**The technical expertise of Torishima has allowed us to  
compete successfully in our markets.**

**We will continuously strengthen our technical expertise and  
strive to make a meaningful impact on society.**

## **By valuing human resources, we will help make a better world.**

The solution to today's problems lies in the hands of "people" who can achieve tomorrow's dreams.

The seed of innovation sprouts when people of varying nationalities, ages, genders, cultures, and backgrounds come together to discuss what they wish they could accomplish, share their wisdom, and embrace new challenges with enthusiasm.

No matter how advanced artificial intelligence becomes, "people" will always remain the key to fostering creative thinking, judging right from wrong, and inspiring and motivating others.

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**Torishima believes human resources are of greater importance than ever before.**

**In order to make the world a better and happier place, we must first ensure that our people are happy.**

### **Torishima's Mission**

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

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**Working toward a future where  
everyone on earth is content**

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