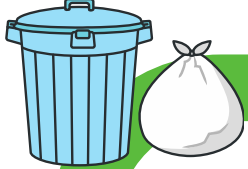


A hand is shown watering a small green plant in soil. The sun is shining brightly in the background, creating a lens flare effect. The text "COMPANY PROFILE" is overlaid in white.

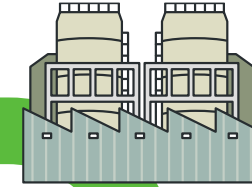
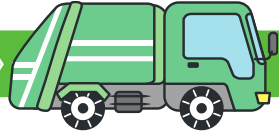
# COMPANY PROFILE

双葉三共株式会社

Waste food generated from distributors/ retail shops/ restaurants



Collection/Transportation



Waste food recycling facility  
( Futaba Corporation)

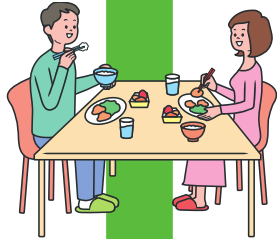
Composting



For farmers, gardening, orchards etc.

We, Futaba Sankyo, are in the business of recovering food waste and sludge and converting it into fertilizer by a microbial self-fermentation system

Delivering safe & reliable food



## 1) Waste food recycle

We have passed the strict standards of the Ministry of Agriculture, Forestry and Fisheries and the Ministry of the Environment, and have been approved as a Food Recycling Registered Revitalizer. In the past, general wastes could only be disposed of by local governments, but since the Food Recycling Law was enacted, excellent recyclers recognized by the state can accept wastes without such restrictions. Even food-related companies that had been forced to incinerate and landfill resources are now able to recycle food resources. We can offer better solutions if you are interested in recycling food resources and organic farming.

## 2) Industrial waste collection / transportation / intermediate treatment

\*Sewage sludge \*Food sludge \*Food and Animal/plant residue

## 3) Sales of fertilizer

\*Ordinary fertilizer \*Special fertilizer \*Pure iron powder \*Culture soil

## Our own self-fermentation system

### High temperature fermentation

Various bacteria are completely sterilized by high temperature fermentation more than 75 degrees and sanitary compost can be obtained.

### Simple facility Easy operation

Facility is so simple and so easy to operate. Also, the fermentation process does not require fossil fuels or extra chemicals.

### No fuel needed

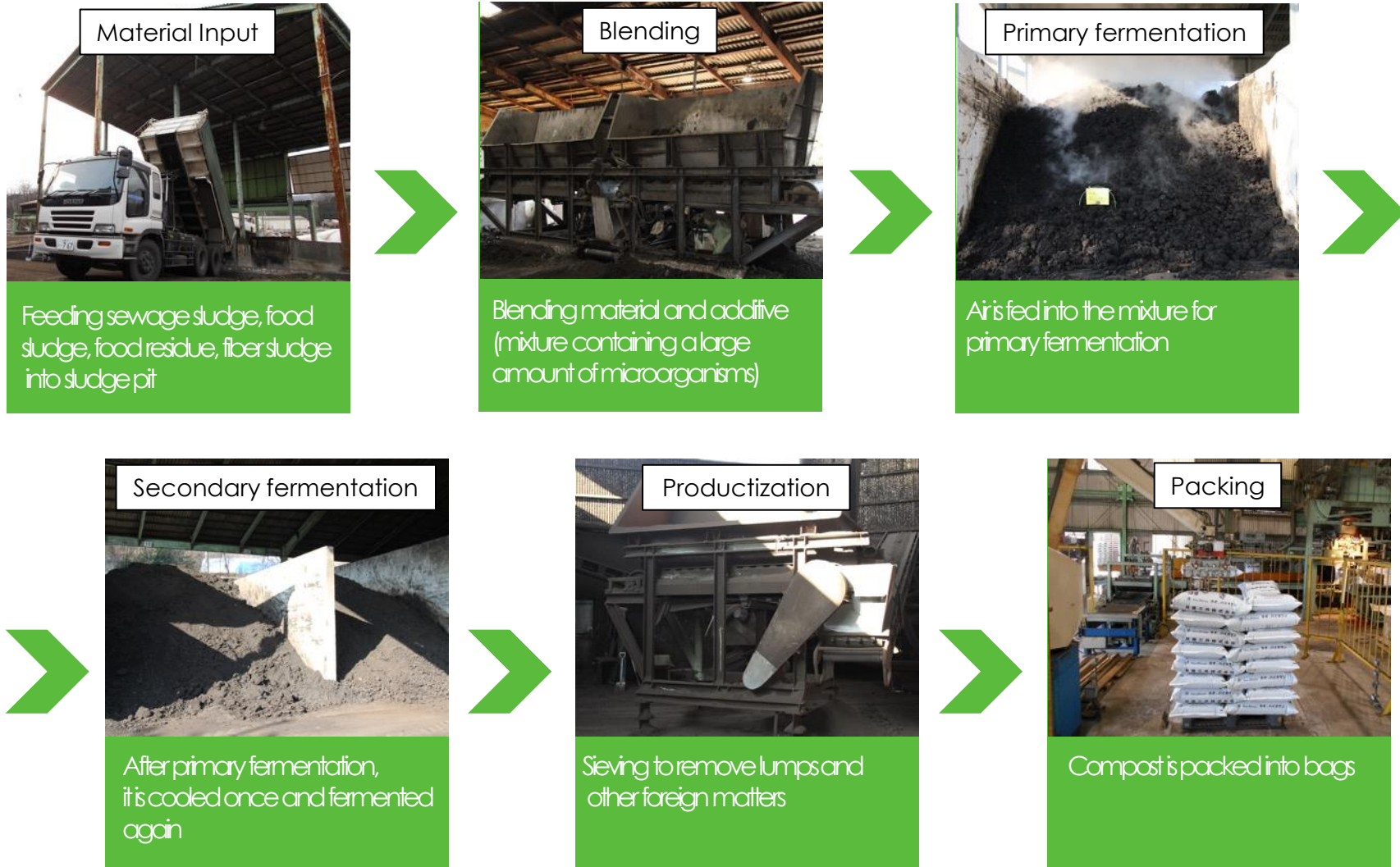
No fuel is needed because the compost will be dried by the heat generated when the compost is self-fermenting.

### No waste water discharged

The volume of the waste water from the plant is almost zero.

We use our own self-fermentation system as a waste disposal method. Sludge generated from food waste and sewage treatment contains a large amount of organic matter and water. Fermentation treatment with microorganisms developed by our company is a method of causing organic matter to be fermented by giving a large amount of oxygen to the microorganism, and the heat generated at that time is used to evaporate water and kill various bacteria. Therefore, it is an economic technology that does not require complex facilities, fossil fuels and chemicals, and that the treated waste is reduced to soil and crops as good fertilizers.

# We are the company that cultivates microorganisms.



All of our products contain microbes, organic matter and trace elements (silica, magnesia, manganese, and boron).

## Hoshaku Beverage Co. Ltd (Higashihiroshima, Hiroshima)



Business :  
Planning, development, production and sales of soft drinks  
Beverage supply service by vending machine



We commission Futaba Sankyo Co., Ltd. to process our coffee bowls, tea bowls and food sludge. We would like to cooperate with Futaba Sankyo Co., Ltd. if we could contribute to the recycling loop in the Higashihiroshima area by composting food residue and food sludge discharged from local companies. We feel strongly that there is a company in the same area that can recycle food waste with confidence. Our relationship with Futaba Sankyo has been over 30 years, and some of our employees use Futaba Sankyo's fertilizer for their cultivation. I've heard that they are so glad to cultivate delicious rice and vegetables with Futaba Sankyo's product.



## Product Introduction

We can enable you to make fertile land and cultivate so delicious rice and vegetables

## Futaba Soil (Small grain) [20kg]

“Futaba Soil” is an organic fertilizer that has been used for rice and vegetables cultivation for about 30 years.

As it contains hundreds of millions of useful microorganisms (per gram), so it can control the invasion of harmful microorganisms and promote the growth of crops.

It is especially effective for leafy vegetables. Customers are pleased that the green of vegetables becomes brighter and the yield is increased.



■Quantity:33L ■Weight:20kg

Nitrogen	5.10	Organics	54.53
Phosphate	3.55	PH	7.2
Potassium	0.63	C/N Ratio	5.1

## Futaba Soil (Medium grain) [15kg]



We made it granular to reduce splashing and make it easier to handle. This fertilizer is suitable for use in rice, vegetables, fruit trees, flower beds and lawns.

■Quantity:28L ■Weight:15kg



# Kamo-King [15kg]



“Kamo-King” is an ordinary fertilizer containing organic matter, which is fermented at high temperature by mixing “Futaba Soil” as a fermentation accelerator in cattle manure

■Quantity:30L ■Weight:15kg

Nitrogen	4.32	C/N Ratio	5.0
Phosphate	2.29	PH	7.2
Potassium	0.66		



## Oolong Ace [40L]

\*Japanese Agricultural Standard Product



“Oolong Ace” is a high-class organic fertilizer made only from used tea leaves.

The antibacterial action of tea leaves is strong against diseases and pests, and has the ability to inhibit continuous crop injury.

■Quantity:40L ■Weight:13kg

Nitrogen	4.36	C/N Ratio	8.0
Phosphate	0.68	PH	7.2
Potassium	0.51		



## Chappa-Dakara [40L]

\*Japanese Agricultural Standard Product



“Chappa-Dakara” is a high-class organic fertilizer made only from used tea leaves.

The antibacterial action of tea leaves is strong against diseases and pests, and has the ability to inhibit continuous crop injury.

■Quantity:40L ■Weight:13kg

Nitrogen	3.46	C/N Ratio	12.0
Phosphate	0.80	PH	5.2
Potassium	0.39		



## Neo-Biosan [40L]



Neo-Bio san is a pure vegetable rich organic fertilizer rich in good bacteria such as Bacillus bacteria and actinomycetes.

■Quantity:40L ■Weight:13kg

Nitrogen	3.81	C/N Ratio	5.8
Phosphate	1.73	PH	7.7
Potassium	1.33		



## Vita-Compo [40L]



It is a high-temperature fermented organic fertilizer mixed with coffee grounds and cow dung. The deodorizing effect of coffee gruel has little odor and can be expected to suppress disease and pests.

■Quantity:40L ■Weight:16kg

Nitrogen	2.65	炭素窒素比	12
Phosphate	0.67	PH	6.8
Potassium	0.99		



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## Tanabe Shokai Inc. [Higashi Hiroshima, Hiroshima]



I grow rice, lotus root and pumpkin in Higashihiroshima City. It will be more than 20 years using "Futabasoil". Before use, I had a tour of the production process of "Futabasoil" at Futaba Sanko's factory. This fertilizer is manufactured by complete recycling, and because of its high quality as fertilizer, we were convinced to start using it. Since using "Futabasoil", customers are pleased that "the rice is better than before" and "more sweeter than the previous one." In the past, beef manure and other composts were used, but it did not lead to the creation of fertile soil and stable yields. Now, with the combination of "Futabasoil" and a one-shot fertilizer, we are able to produce high-scoring rice with a stable yield every year. We have decided to use "Futabasoil" in the future!

## Mr. Matsuda [Takehara-shi, Hiroshima]



I grow potatoes, tomatoes, flowers and so on. I have been using "Ouron Ace" and "Chappa-dakara" for over 30 years. In particular, potatoes are vegetables that require fertilizer, and chemical fertilizers alone do not provide the original taste. Because we want to focus on organic farming, the raw materials are tea pots and the plant-based fertilizers "Ouron Ace" and "Chappa-dakara" are indispensable. As it is also certified as JAS's organic compatible material, we use it with confidence. In terms of cost, it is also nice to reduce the cost of conversion because there are 4 nitrogen and phosphoric acid.



Company Name	Futaba Sankyo Co., Ltd.
Incorporated	March 12, 1984
CEO	Mr. Kazuyuki Hirayama
Capital	30 Million JPY
Major Banks	Momiji Bank,Ltd./Resona Bank, Limited/Hiroshima Bank
Number of employee	22
Business	1)Collection, transport and fermentation of industrial waste (sewage sludge etc.) and general waste 2) Production and sales of ordinary fertilizers and special fertilizers 3) Sale of feed derived from food residue
Location	Head Office) 535 – 21 Kamiminaga, Saijo-cho, Higashi-Hiroshima City, Hiroshima 739-0022, Japan TEL : (082)426-1331 FAX : (082)426-1332 Plant) 11359, Nishikodera, Tamari-cho, Takehara-shi, Hiroshima 725-0001, Japan TEL : (082)426-0748 FAX : (082)426-0914
Affiliated Company	Tsuneishi Kamtecs Corporation

We were founded in 1984 for the purpose of industrial waste treatment and compost fertilizer production, and we have been working on the realization of a recycling society since then.

In waste treatment using a self-fermentation system developed independently, it is treated without using substances polluting the global environment, and it can be transformed into compost. Supported by good relationships with business partners who have agreed to this clean recycling flow, the organic fertilizer “Futabasoil” bearing the company name has been favored by many customers from its founding to the present.

We became part of the Tsuneishi Group in 2015 and gave us an opportunity to look to the world. In recent years, our technology has received much attention from around the world, including government visits from Southeast Asia where waste disposal and environmental improvement have become social issues, and technical training for South American engineers. . We will continue technological reforms and quality improvement while deepening ties with group companies, and will strive for further growth and development.

We aim to deliver food that is "safe and secure" for children in the future, produce organic fertilizer with waste from food produced in the area, and recycle it to grow food with this organic fertilizer I am working on organic farming. Rather than trying to reduce food waste simply because it is wasteful, we would like to make safe food by food residue and have children eat it. Based on this idea, Futaba Sankyo will continue to create the future of "safety and security" "food“.

CEO  
Kazuyuki Hirayama



## Unique technology attracting attention from overseas



### JICA

We are accepting trainees from JICA and other public organizations and companies in Latin America who want to learn Japanese sewage and water treatment technologies.

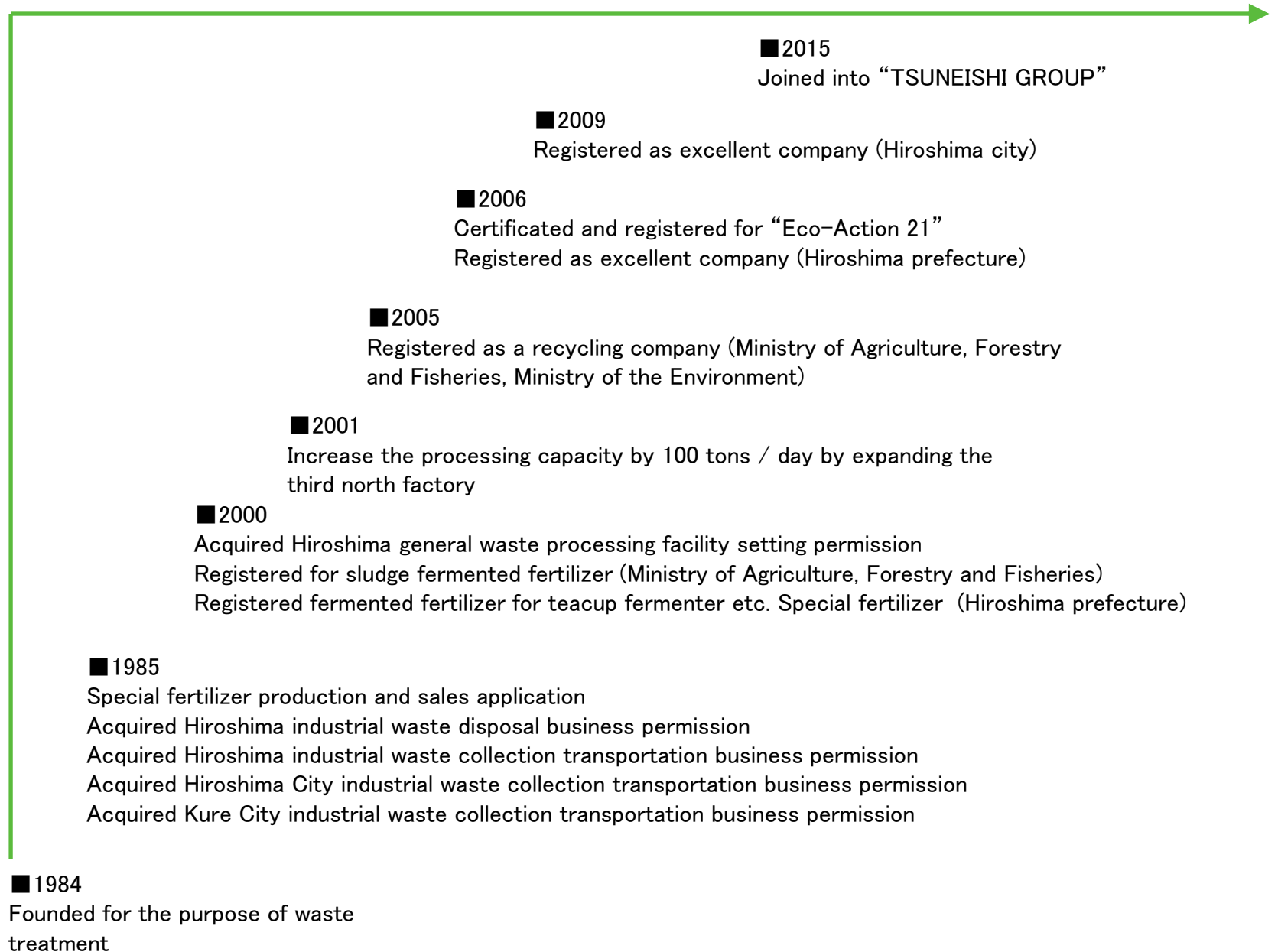
### Vietnamese local government



In Vietnam in recent years, with the rapid economic development, waste disposal has become a social issue. The Mekong Delta region in southern Vietnam is thriving with aquaculture such as shrimp and catfish, and there is a high level of interest in wastewater treatment and sludge treatment technologies, especially in relation to water quality management.

In 2017, local government officials from the Mekong Delta region, Can Tho City, Sok Trang Province, and Bakulu Province visited Futaba Sankyo to see their own unique sludge treatment and recycling technology using microorganisms.

## SINCE 1984

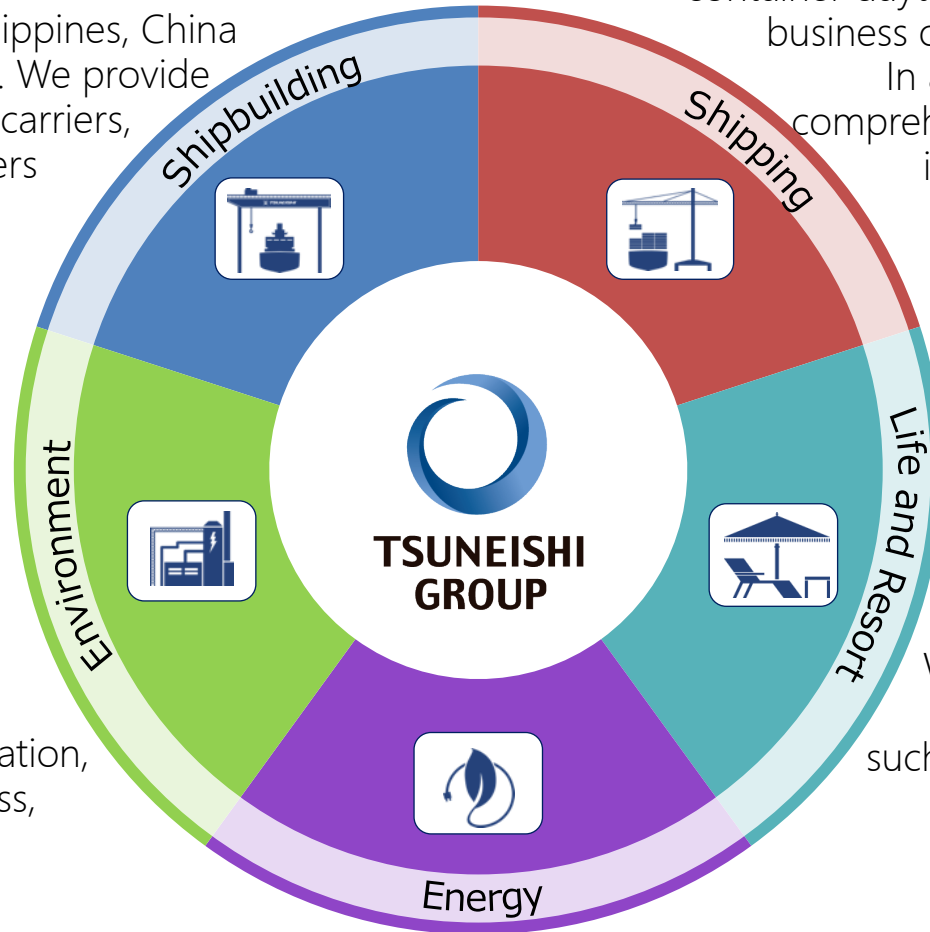


### Shipbuilding

We are developing a new shipbuilding and repair business at four bases including Tsuneishi, Philippines, China and Paraguay overseas. We provide bulk carriers, container carriers, tankers, etc. to customers all over the world.

### Shipping

We are developing a liner business with container daytime liners and a tramp business operating bulk carriers. In addition, we operate a comprehensive logistics center in Fukuyama to handle customs clearance of import and export cargo.



### Environment

We are developing industrial waste collection and transportation, intermediate treatment business, and recycling (incineration, melting).

### Life and Resort

We operate amusement facilities, leisure facilities such as marinas and hotels, and offer the fun and comfort of living.

### Energy

We provide services to support the car life and energy business such as solar power generation.