

# A SUSTAINABLE FUTURE

## —— Creating New Value through Technology ——

Since YANMAR's founding more than 100 years ago, our company has been driven by a pioneering spirit for world-leading technology. Today, this technology continues to be a core focus, allowing us to utilize and transform all kinds of energy resources into power that can be harnessed for highly efficient human convenience.

Using our ever advancing technology, Yanmar continuously strives to exceed customer expectations and deliver exceptional lifetime value by integrating our products, services and knowledge into comprehensive solutions of superior quality.

Food and energy are two needs of increasing importance for which YANMAR is committed to providing optimal solutions to our customers. We gather knowledge and insights from a variety of resources, research institutes and corporations to develop innovations aimed at creating a global sustainable society.

Sustainable prosperity for all. A sustainable natural environment. YANMAR will pursue these two “sustainables” to the next level, towards a new era of prosperity in the coming century.

## YANMAR'S FUTURE VISION

What Creating New Value Means

Based on the principles of —A SUSTAINABLE FUTURE—, we have defined four kinds of social abundance which we actively seek to realize.

### OUR SOLUTION

#### VISION

### 01

An Energy-Saving Society

Expanding the possibilities of energy. Affordable and safe power and heating. Whenever it is needed, and only as much as is needed.



By developing highly-efficient and safe engine technologies as well as systems that make optimal use of diverse energy source, we reduce the burden on the environment and make society a more comfortable place to live.



#### VISION

### 02

A Society where People Can Work and Live with Peace of Mind

Making hard work easy. Making work enjoyable for everyone, while also guaranteeing a steady income for everyone. Living a sustainable life that offers many opportunities.



We use mechanization and automation to reduce workload and improve productivity, find technical solutions for making machines and vehicles safer and easier to operate, and support infrastructure and urban planning in order to create better working and living environments.



#### VISION

### 03

A Society where People Can Enjoy Safe and Plentiful Food

Ensuring delicious, safe, and nutritious food, anywhere in the world at all times. Healthy living for all.



Supporting the entire food value chain from soil remediation, establishing seedlings and harvesting up to the moment produce arrives at your dinner table. We are determined to create a society where people can continue to enjoy the gift of flavor.



#### VISION

### 04

A Society that Offers an Exciting Life Filled with Rich and Fulfilling Experiences

Get the most out of work and play. Improving the quality of life for everyone.

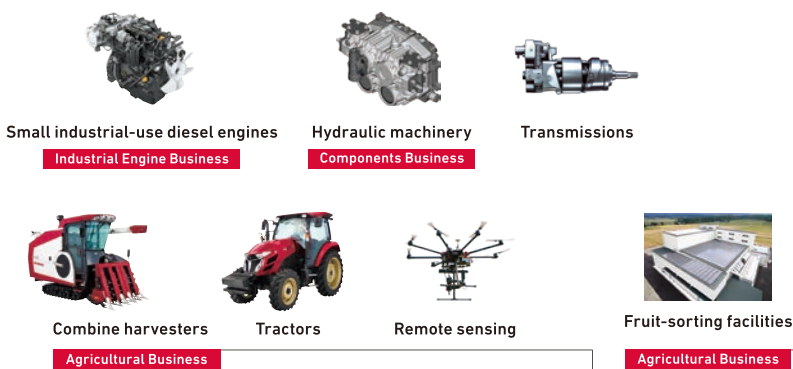


We not only pursue ease of use and creativity in our products and services, but also engage in corporate activities for educating future generations and encouraging cultural development. Through our activities, we aim to make everyday life more fulfilling in terms of both work and leisure.

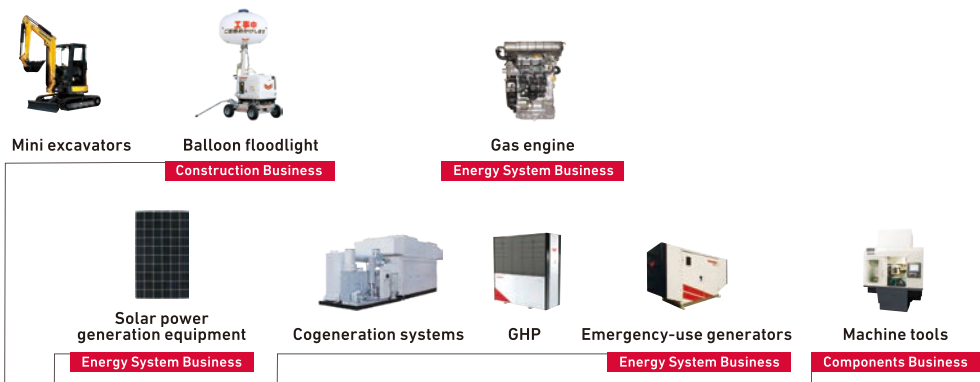


# FIELDS

## LAND



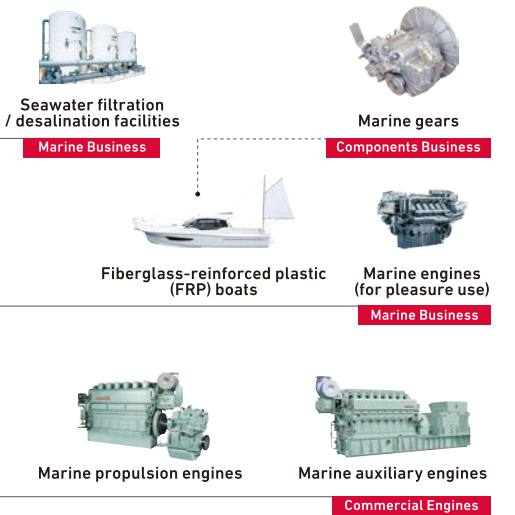
## CITY



### Our business is the earth itself.

From sprawling fields and oceans to our global cities, Yanmar is active in every part of the planet that touches our lives. Yanmar maintains an unparalleled reputation for reliability and efficiency based on the strength of its technologies in these domains. We provide innovative and diverse solutions creating new wealth and value for our customers and our community.

## SEA



## LAND



### LAND Transforming Agriculture into A Food Value Chain

Yanmar has supported core food production industries through the manufacturing and sales of agricultural equipment for many years. Now, we have further evolved from simple "agriculture" to the "food value chain" with the aim of realizing a society rich in the blessings of abundant good food. We continue to develop business across a wide range of food-related industries, from superior equipment to the efficient use of ICT, as well as agricultural management support and the provision of more valuable ingredients and even food experiences.

## SEA



### SEA Sustainable Practices on Our Oceans

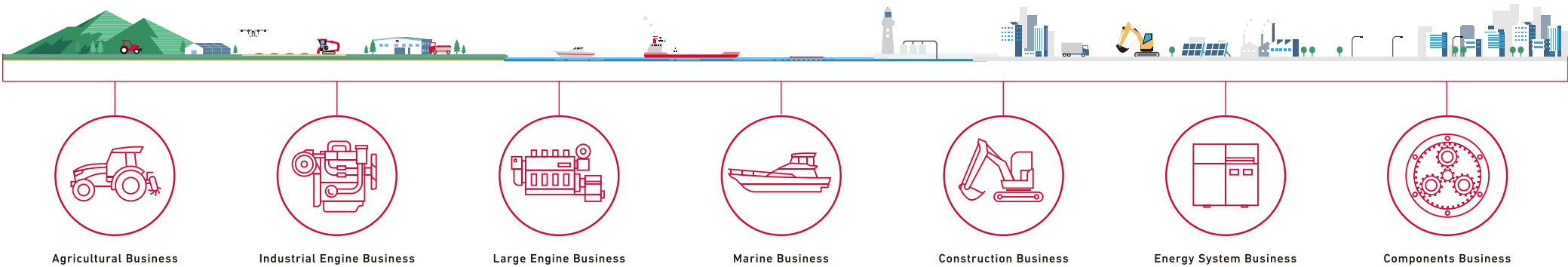
We have developed marine engine and propulsion systems that provide safe and comfortable navigation with unparalleled performance and dependability while maintaining harmony with the surrounding environment. Furthermore, we continue to develop and support aquaculture technologies and related marine equipment. Our goal is an ideal coexistence between humanity and the sea, from industries supporting the foundation of our modern lifestyle such as shipping and fisheries to pleasure boats.

## CITY



### CITY Contributing to the Development of Infrastructure that Supports Comfortable Urban Living

As urban development progresses on a global scale, we offer a variety of machines essential to building urban infrastructure, including compact construction equipment ideal for small urban development. Additionally, Yanmar has developed an ultra-efficient gas heat pump (GHP) air conditioner that contributes to energy savings and cogeneration as well as energy management systems that optimally control electricity and heat in urban environments where various facilities and housing developments are concentrated. Furthermore, our company promotes the use of renewable energy, contributing to the next generation in urban comfort and energy-savings.



# TECHNOLOGY CONCEPT

Achieving Maximum Prosperity with Minimum Resources

At Yanmar, we continue to develop and pursue technologies in the fields of food production and energy conversion which provide the best possible results with minimal resources. Looking ahead to the next 100 years, we will strive to provide our customers with solutions through technology, providing a more prosperous future to our future society.

## YANMAR TECHNOLOGY

Yanmar is engaged in research in five key areas, proposing solutions that will create a prosperous society.



### Y-Energy

Maximum and optimum energy output with minimal environmental impact

- Engine technologies
- Hybrid technologies
- Power electronics & power transmission technologies
- Weak current and thermal storage technologies
- Hydrogen & heat usage technologies
- Energy management technologies



### Y-Robotics

Maximum work effectiveness with minimal use of manpower

- Measured awareness technologies
- Intelligent control technologies
- Mechanical and mechanism design technologies
- System control technologies



### Y-Cultivation

The safest, most delicious food with minimal energy usage

- Breeding technologies
- Bio-monitoring technologies
- Environmental control technologies
- Biological evaluation technologies



### Y-Experience

Delivering the greatest excitement with cutting-edge solutions

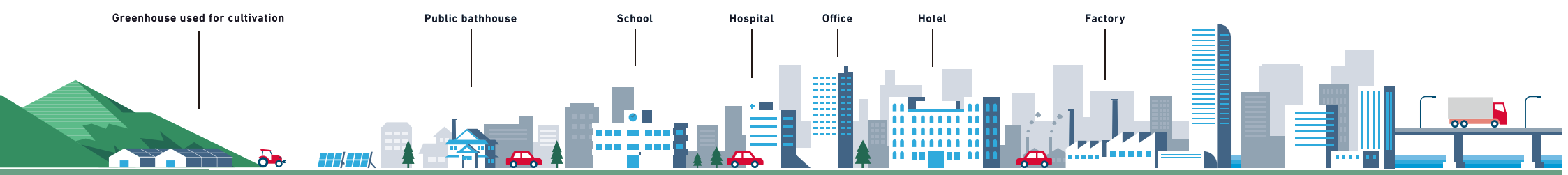
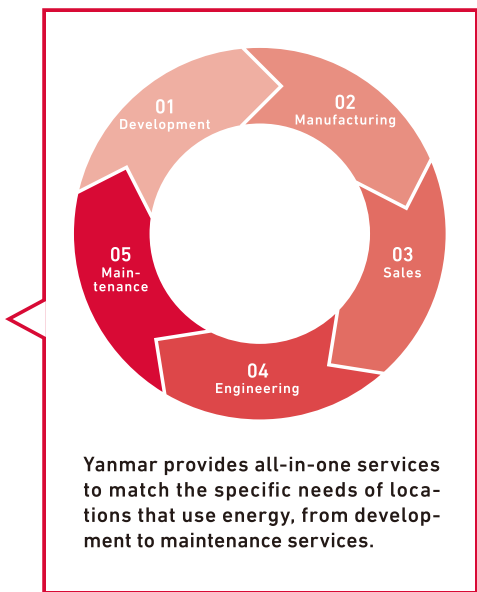
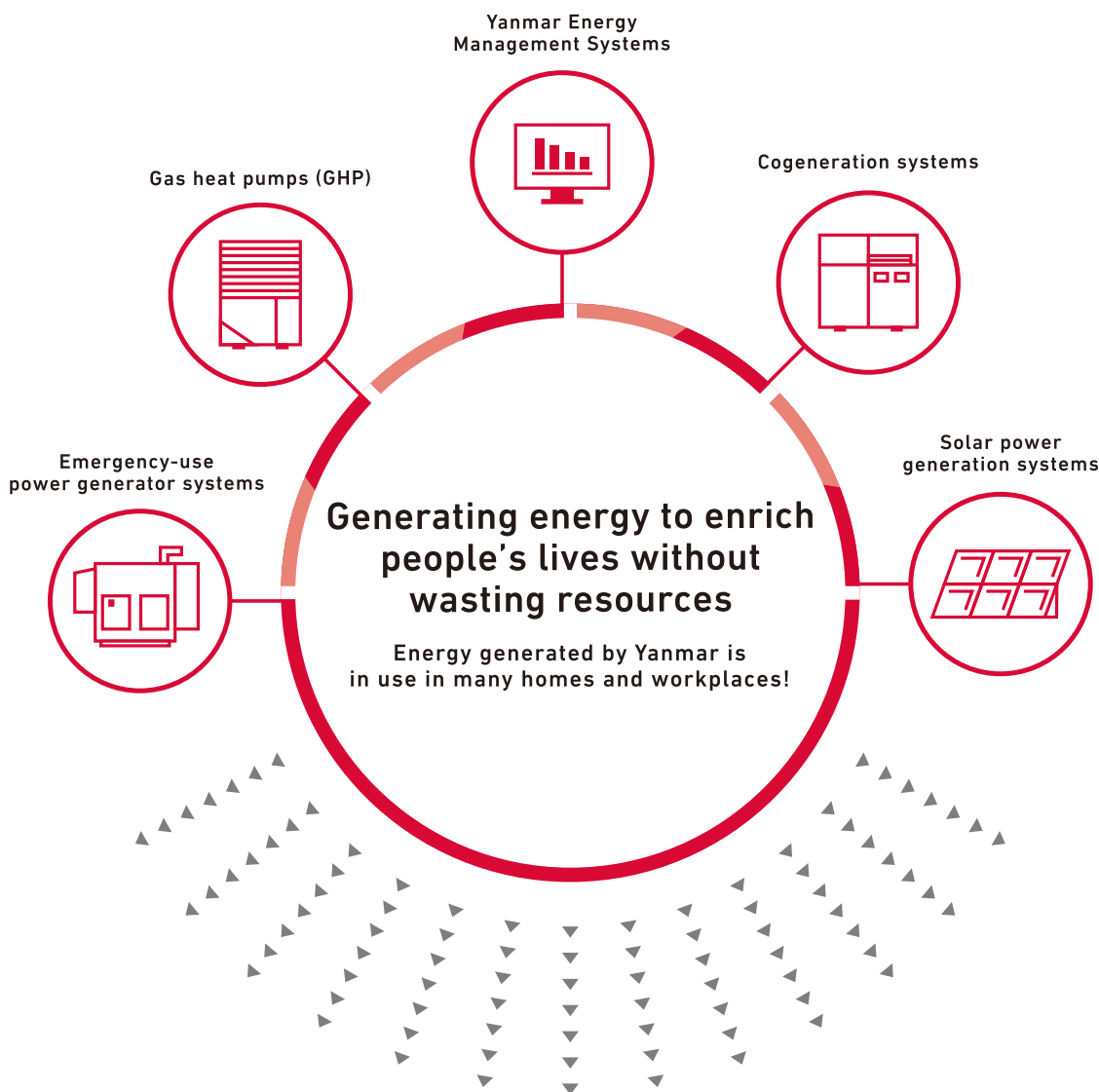
- Remote technologies
- Cognitive technologies
- Automated driving technologies
- Automated response technologies
- IoT technologies



### Y-Quality

The greatest comfort and peace of mind with minimal burden

- Ergonomics technologies
- Materials & design technologies
- Evaluation & prediction technologies
- Condition determination technologies
- Security technologies





# YANMAR MUSEUM'S Four Types of Sustainability

## 01 Sustainability through the use of water features



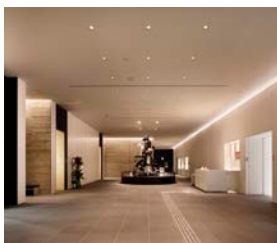
The museum building takes in natural light reflected from the outdoor water features, enabling us to reduce the number of light fixtures around the building.

## 02 Sustainability through the use of rooftop greenery



The use of greenery on the large rooftop space reduces the impact of sunlight. This has insulating advantages, preventing heat (or cool air in summertime) to escape outside of the building.

## 03 Sustainability through energy efficiency

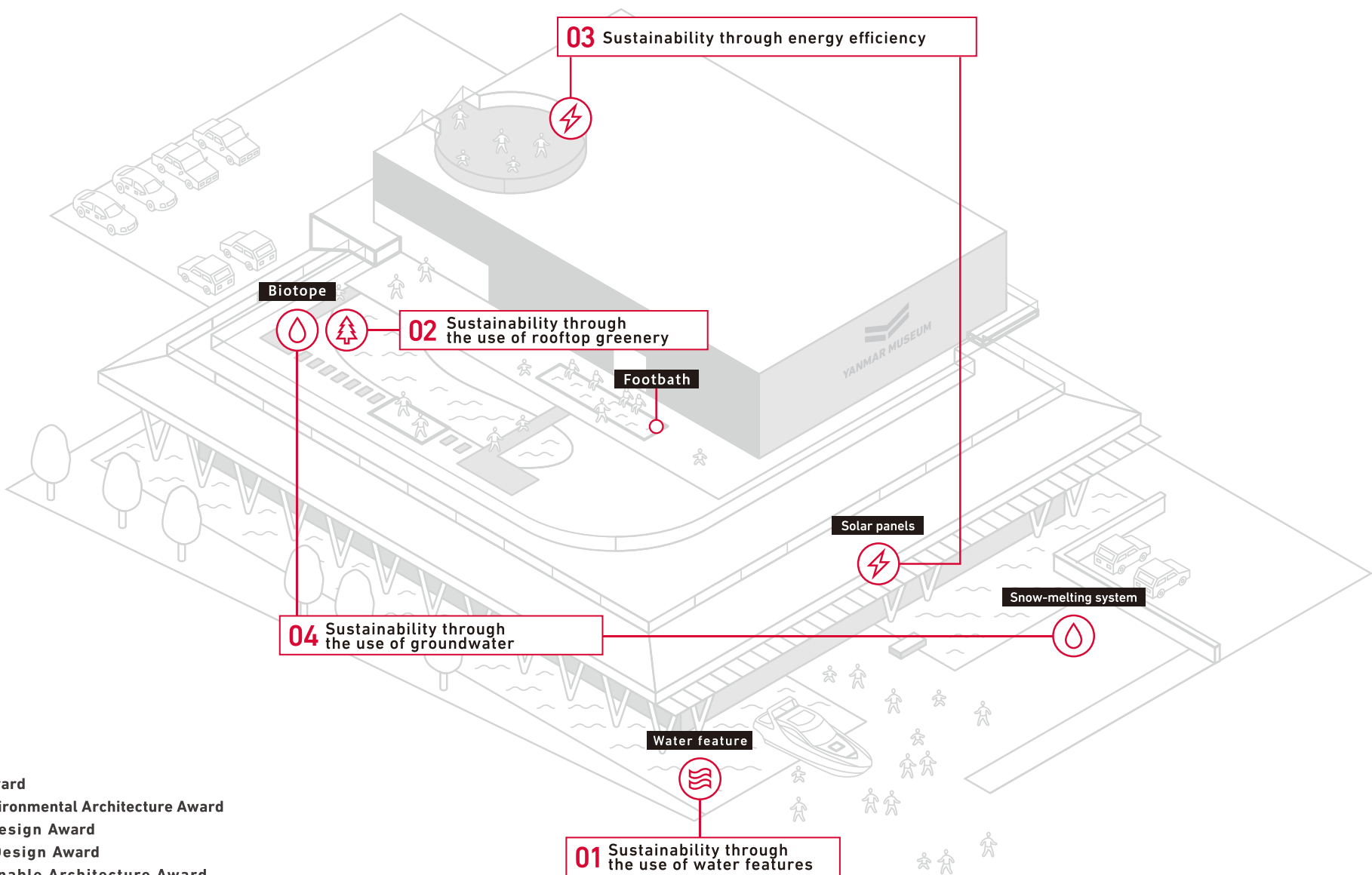


The museum limits energy consumption through the use of cogeneration and solar power generation systems. Waste heat generated by the cogeneration system is used to supply hot water for our footbaths.

## 04 Sustainability through the use of groundwater



We save water by utilizing natural groundwater for our water features, biotope, water sprinkling for our plants and trees, and for our snow-melting system.



### Award

- 2014 BCS Award
- 2014 JIAEnvironmental Architecture Award
- 2015 Kids Design Award
- 2016 Good Design Award
- 2016 Sustainable Architecture Award

