

03 Providing Innovative Solutions for a Better Environment

Growing world population and the resulting expansion of economic activity are contributing to global warming and depleting biodiversity. Global environmental problems are becoming more and more serious. As a builder of social infrastructure and a “company with a vision for all eras,” Kajima is determined to play a major role in realizing a sustainable society.

Targets in fiscal 2012

- Work toward achieving environment-related targets in consideration of business expansion in the first year of the medium-term environmental plan (FY2012–2014)
- Consider the objectives of Kajima’s targets with a medium- to long-term perspective after examining national and social trends

Achievements in fiscal 2012

- Made generally steady progress in the first year of the medium-term environmental plan, and completed corrective measures for unachieved items
- Established the “Kajima Environmental Vision: Triple Zero 2050,” and completely revised the Environmental Management Policy

Targets in fiscal 2013

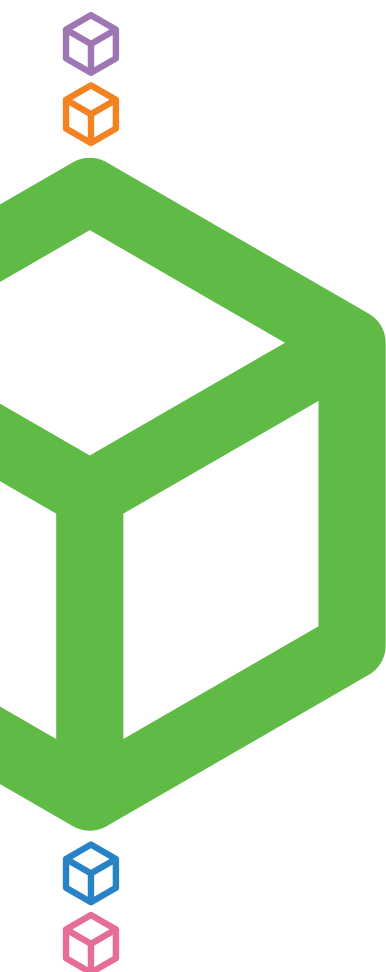
- To realize our environmental vision:
- Continue working to achieve the medium-term environmental plan
 - Upgrade action infrastructure (review implementation organizations, study comprehensive activity evaluation indices, and identify long-term technical development issues)

	Issues	Goals in fiscal 2012	Results	Evaluation
Four Priority Issues	Global warming prevention	CO ₂ emissions of building in use 35% reduction in compared to criteria of the Act on the Rational Use of Energy	Reduced 39%	○
		Reduce CO ₂ emissions per unit from construction by 17% reduction per unit compared to the fiscal 1990 level	Reduced 14%	△
	Resource recycling and effective use	Zero emission Final disposal rate of less than 3%	Final disposal rate: 2.8%	○
		Promote green procurement at design stage	Selected 17 priority items	○
	Hazardous substance management	Completely eliminate accidents involving hazardous substances Priorities: soil contamination, asbestos	Asbestos leakage incident occurred	×
		Promote to manage chemical substances, etc.	Managed waste Managed indoor conditions	○
	Conservation of biodiversity	Propose 10 priority projects or more per year	Civil engineering: 3, construction: 20	○
		Promote activities for communication, education, and public awareness	Transmitted information at lectures and on website Periodic environmental education	○

Initiatives in fiscal 2012

In fiscal 2012, the first year of the medium-term environmental plan (FY2012–2014), overall steady progress was made on each issue. Although CO₂ reduction targets have not yet been achieved in construction, this was due to a large increase in the CO₂ emissions coefficient per kilowatt hour of electricity. As for the management of hazardous substances, in response to the asbestos leakage incident during construction of a building, we have revised management standards as a preventative measure, while also reinforcing the management system.

We also established the “Kajima Environmental Vision: Triple Zero 2050,” a long-term environmental initiative to be achieved by that year, and completely revised our Environmental Management Policy.





Kajima Environmental Vision Tripe Zero 2050

Construction is a resource-intensive industry, and often impacts the natural environment. As a part of this industry, Kajima will continue trying to create harmony between the environment and social infrastructure by reducing the environmental impact of its business activities. We will also strive to take the lead in realizing a sustainable society.

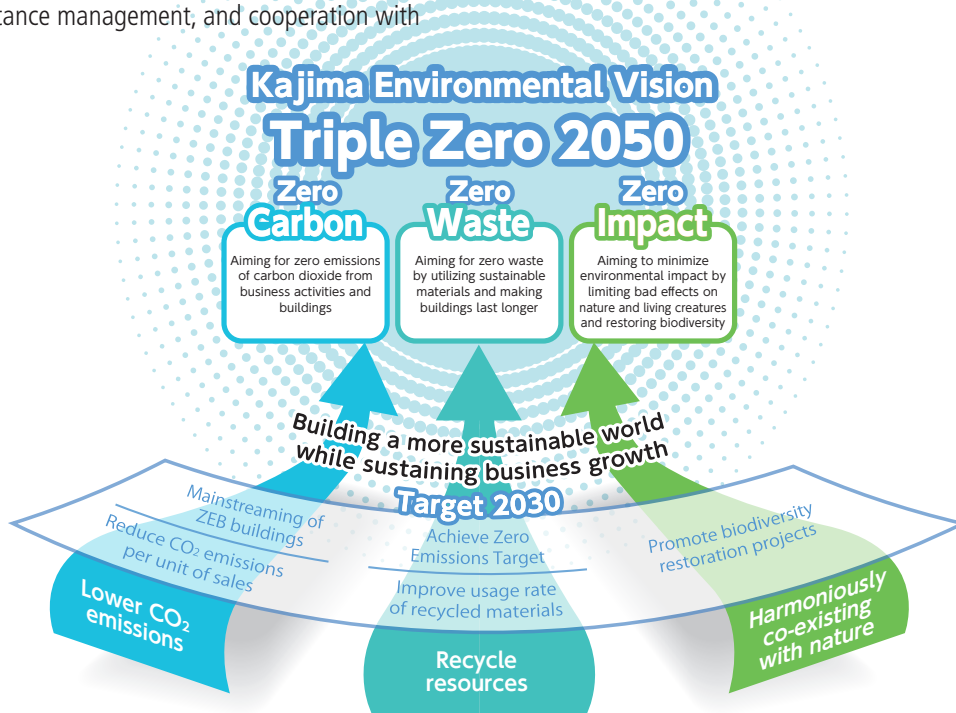
To help realize a sustainable society by 2050, we have articulated our own environmental vision, "Triple Zero 2050." In order to achieve this vision, three social conditions must be met: low-carbon, resource recycling, and harmony with nature. "Target 2030" has also been created as an intermediate goal on the road to achieving these three conditions.

Along with the establishment of this vision, Kajima's Environmental Management Policy was also completely revised. The new policy emphasizes technology development, hazardous substance management, and cooperation with

society. The aim is to create a common foundation for initiatives to realize the three social conditions of low-carbon, resource recycling, and harmony with nature, as part of Triple Zero 2050.

■ Focusing on three priority issues

Three of the four priority issues we have been pursuing are directly related to the kind of society we aspire to build. Hazardous substance management, one of our long-standing priority issues, is a common foundation for initiatives to realize the three social conditions. Research and technology development is also required for Kajima to help achieve the three conditions, as well as cooperation with society based on the active sharing of information in and outside the company. We are now putting a special focus on these three issues.



Target social conditions

Triple Zero 2050

Target 2030

Realization of a sustainable society

Low-carbon society

A society that balances the level of human-origin greenhouse gas emissions with the planet's capacity to absorb them

Zero Carbon

Aiming for "Zero Carbon" emissions not only from our own business activities, but also zero greenhouse gas emissions from the buildings we construct

Design:

Design zero-energy buildings (ZEBs) by 2020, generalize the technology by 2025, and popularize ZEBs by 2030.

Construction:

Reduce emissions per unit of construction value by 35% compared to 1990

* 65% reduction in total emissions

Resource-recycling society

A society that updates infrastructure using sustainable resources on a foundation of high-quality infrastructural assets, while working toward the goal of zero emissions

Zero Waste

Aiming for "Zero Waste" in our construction business through the use of sustainable materials and the construction of more durable buildings

Construction waste final disposal rate: 0%

Recycled materials utilization rate for principal materials: 60% or more

Principal materials: cement, concrete, asphalt, crushed stone, steel

Society in harmony with nature

A society with minimal impact on nature which is able to enjoy the resulting ecosystem services in a sustainable way

Zero Impact

Aiming for "Zero Impact" for the construction business as a whole, by creating and using new biodiversity, and by minimizing the impact of this business on nature and organisms

Biodiversity creation projects

Promoting high-quality projects in society that will become core sites for biodiversity networks

