

From Protection of the Environment to Creation

At a time when environmental problems such as global warming and threats to biodiversity are reaching critical levels, Kajima is continuously seeking to contribute in whatever ways it can to address the issues of the day and offer solutions. By constructing buildings that consume less energy, designing urban spaces in harmony with biodiversity, and helping build a society that recycles resources and energy, Kajima is creating quality assets—valuable in both tangible and intangible terms—to pass on to the next generation.

Environmental Management

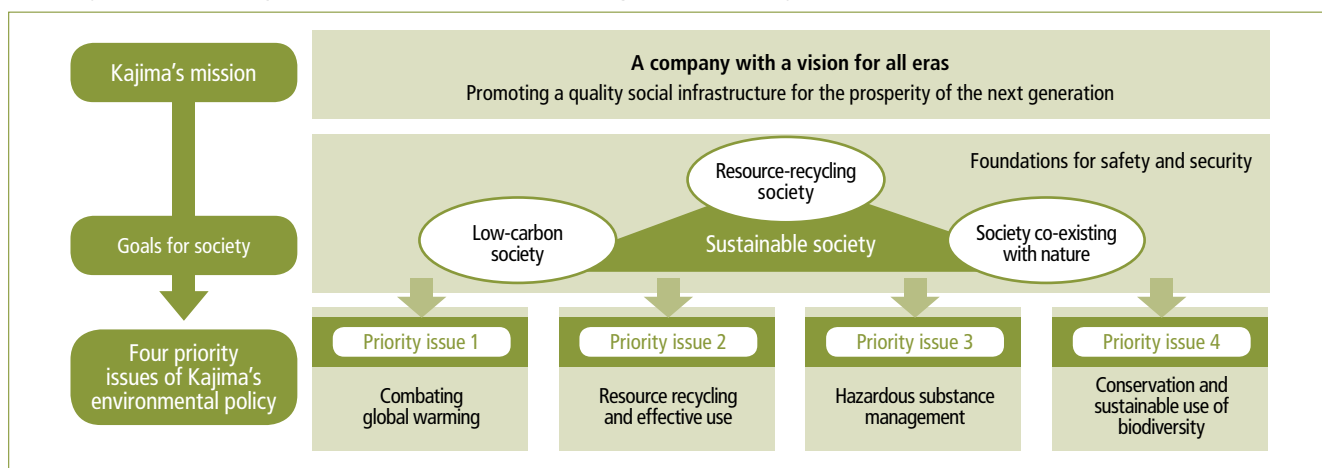
The construction industry is unique for its consumption of large amounts of resources, the long-term usage of its products, namely buildings, and its direct alteration of the natural environment. Taking these aspects into consideration, Kajima set up an environmental management system based on ISO 14001 in 1997. Kajima integrated the system company-wide in 2003, and since then has continued to carry out environmental activities under the four priority issues of combating global warming, resource recycling and effective use, hazardous substance management, and promotion of ecosystem-friendly construction.

Environmental Activities and New Medium-Term Goals

Recognizing the need for better-managed and integrated environmental activities for a sustainable society, Kajima strengthened its environmental approach with the establishment of new medium-term goals covering the period from fiscal 2009 to fiscal 2011.

Beginning with the first priority issue of combating global warming, Kajima aims to reduce CO₂ emissions on a lifecycle basis by 30% by fiscal 2011 compared to the fiscal 1990 level, and intends to achieve this target through designing buildings that save energy. With the goal to achieve a 50% reduction in total CO₂ emissions from construction by 2020 compared to the fiscal 1990 level, Kajima has established a target to reduce total emissions by 41% by fiscal 2011. Turning to other priority issues, Kajima is aiming to be the driving force in the construction industry for promoting urban development that considers biodiversity. Furthermore, the company has taken up the challenge to lower its final disposal rate of waste from construction to under 5%, and is making determined efforts to investigate and take measures against soil contamination, including soil damage from natural sources.

Priority Issues of Kajima’s Environmental Management Policy



Environmental Targets and Results

Completion: ○: Target achieved △: Nearly achieved ×: Not achieved

Priority issue	Medium-term goals for fiscal 2006 – 2008			Fiscal 2008 results	Completion
	Area	Scope	Details		
Combating global warming	Providing social infrastructure that uses significantly less energy	Architectural design	Rate of achieving voluntary energy-saving standard (set 15% above the Energy Conservation Law): 80% or more	83%	○
	Reducing CO ₂ emissions in construction	Company-wide	Reduction rate for CO ₂ emissions per unit (10kg-CO ₂ / ¥1 billion in sales) compared to fiscal 1990 level: 12%	11.7%	△
Resource recycling and effective use	Zero emissions	Company-wide	Final disposal rate (excluding sludge and slag): 5% or less	5.2%	△
	Suppression of waste generation	Civil engineering	Total generation: 140 tons or less / ¥1 billion in sales Mixed waste: 18 tons or less / ¥1 billion in sales	116 tons / ¥1 billion in sales 15 tons / ¥1 billion in sales	○ ○
		Building construction	Mixed waste: 8.65 kg / m ²	6.6 kg / m ²	○
	Green procurement	Company-wide	Green procurement rate (by weight) for major materials (steel, ready-mixed concrete, cement, aggregate, and asphalt): 50% or more	47%	△
Hazardous substance management	Promoting preventive measures	Company-wide	Complete elimination of accidents involving hazardous substances	No serious accidents reported	○
Conservation and sustainable use of biodiversity	Development of guidelines for conduct	Civil engineering	Development of construction management	Covers all construction work	○
		Company-wide	Provide in-house training Contributing to society	Created training materials Provided free environmental classes at four elementary schools	○ ○

Priority issue	Medium-term goals for fiscal 2009 – 2011			Fiscal 2009 targets	
	Area	Scope	Details	Scope	Details
Combating global warming	Lowering carbon over building lifecycles	Architectural design	Reduction of lifecycle CO ₂ generation (applicable to design and construction projects) compared to fiscal 1990 level: 30%	Design	Reduction compared to fiscal 1990 level: 25%
	Reducing CO ₂ emissions in construction	Company-wide	Reduction of total volume compared to fiscal 1990 level: 41% Reduction rate per unit compared to fiscal 1990 level: 17%	Company-wide	Total volume: 40% reduction Per unit: 15% Reduction
Resource recycling and effective use	Zero emissions	Company-wide	Final disposal rate (excluding sludge and slag): less than 5%	Company-wide	Less than 5%
				Civil engineering	Less than 3%
				Building construction	Less than 5%
	Suppression of waste generation	Civil engineering	Total generation: 70 tons or less / ¥1 billion in sales	Civil engineering	80 tons or less / ¥1 billion in sales
Building construction		Generation per unit: 25 kg / m ² or less	Building construction	25 kg / m ² or less	
Green procurement	Company-wide	Average procurement rate (for onsite procurement) for 10 major materials: 5% increase above fiscal 2009 level	Company-wide	Determine fiscal 2009 level of procurement of 10 major materials	
Hazardous substance management	Promoting preventive measures	Civil engineering	Conduct surveys of soil contamination (including naturally caused) and implement countermeasures	Civil engineering	Incorporate in medium-term goals
		Building construction	Take appropriate measures to prevent and respond to emergencies	Building construction	Incorporate in medium-term goals
Conservation and sustainable use of biodiversity	Business proposals	Architectural design	Actively promote proposals to clients	Design	Strategically select proposals
	Focus on the supply chain	Company-wide	Review supply chain management	Company-wide	Conduct research on procured materials

For more detailed information, please refer to Kajima's Web site.