

# Environmental Action Plan



There is no future for a company without efforts for the environment — this is the principle of Toyoda Gosei, which is also our management philosophy. Under this principle, we started an “environmental action plan” in fiscal 1994 and have attempted to improve the content in phases. In the current Third Environmental Action Plan, we aim to “form a society with sustainable development” and set higher aims to realize harmony with the global environment and a recycling-oriented economic society. We are steadily putting environmental efforts into action in cooperation with each TG Group company worldwide, as well as nationwide.

## Boundless Creativity for a Better World

### Management Philosophy

**1 Steady growth through innovation**

Ensure steady growth through innovative management and a strengthened corporate structure, while using our high-polymer technologies to offer the best and most comprehensive selection of components and systems in the global market.

**2 Customer satisfaction**

Devote ourselves to satisfying the needs of customers by developing products and services through cutting-edge research and state-of-the-art manufacturing technologies.

**3 Humanistic corporate culture**

Create a vibrant corporate culture where individual creativity, innovative thinking and collaborative spirit are fostered and rewarded, based on shared responsibility and mutual trust between employees and management.

**4 Good corporate citizenship**

Strive to be a trustworthy, respected corporate citizen, by honoring both the letter and the spirit of the law of every nation, abiding by international rules and conducting our activities openly and fairly.

**5 Respect for the environment**

Dedicate ourselves to providing environmentally friendly products, respecting natural ecosystems by taking a proactive approach toward environmental preservation and safety issues.

**6 In sync with the global community**

Contribute to industrial and socioeconomic development around the world, while acting in harmony with regional communities.

### Environmental Policy

**1. Promotion of environment-friendly corporate activities**

Maintain the awareness that our business is deeply linked to the environment at every stage from development, production, and sales to disposal, and promote environmentally friendly corporate activities in cooperation with customers and public administrations as the TG Group, including the affiliated companies, overseas bases and suppliers, as well as all the business units of Toyoda Gosei.

**2. Efforts as a good corporate citizen**

Take a progressive approach to local and social environmental activities as a good corporate citizen while participating in and offering support and cooperation for environmental activities by various organizations. Educate our employees so that they participate in environmental activities as a member of the region or community, while offering them support for their social contribution and volunteer activities.

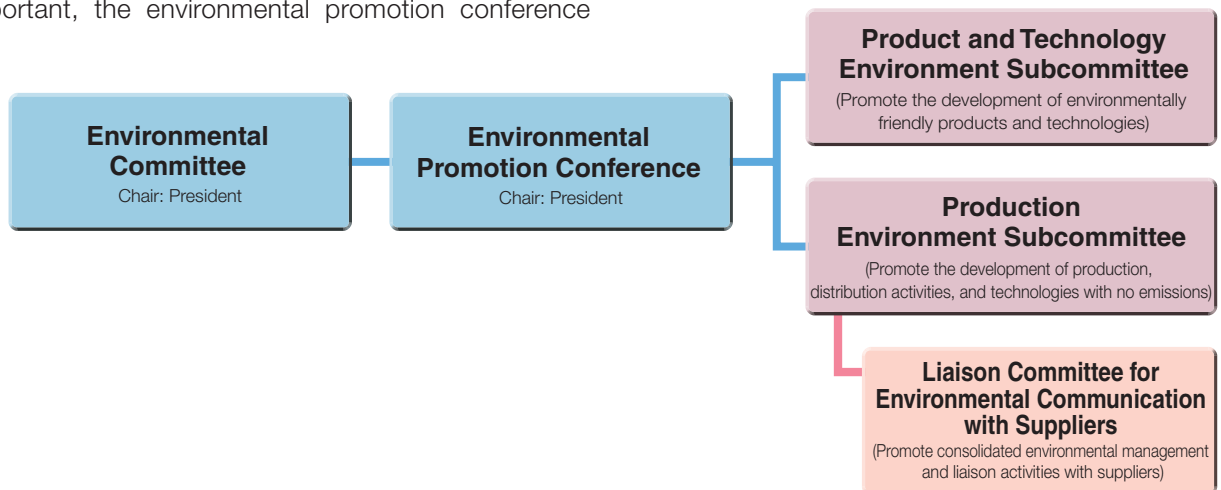
**3.** Transmit the information of these efforts broadly and listen to a variety of opinions for greater improvement of activities.

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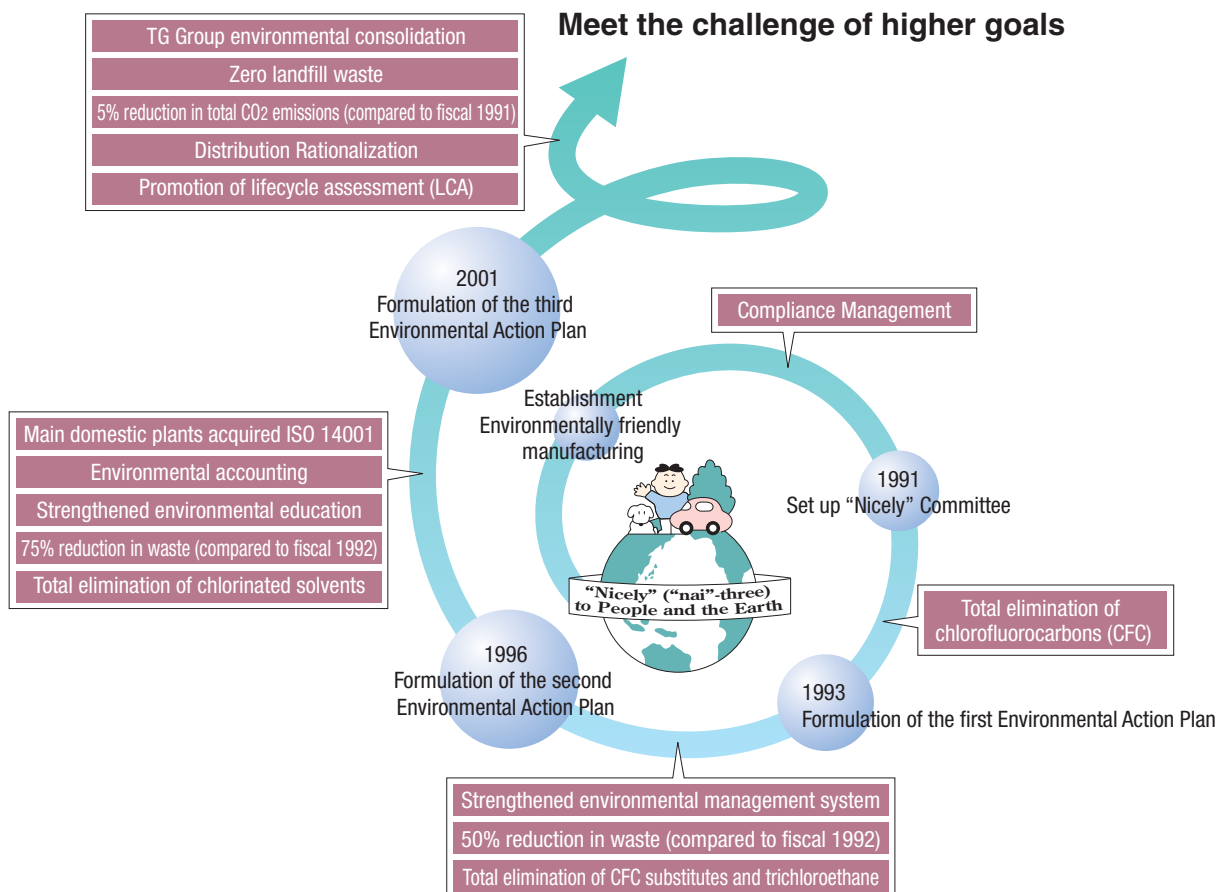
## Organization for Environmental Action (fiscal 2002 to 2006)

Under the Environmental Committee, which comprises all board members, the President chairs the Environmental Promotion Conference comprising plant managers and business unit managers so that we can promote comprehensive environmental management from the viewpoints of both management and the work front. In addition, as fundamental operations, including the development of environmentally friendly products and technologies, are expected to become more important, the environmental promotion conference

consists of the Product and Technology Environment Subcommittee and the Production Environment Subcommittee, which together has a cross-sectional view of the entire company. Under the Production Environment Subcommittee is the Liaison Committee for Environmental Communication with Suppliers, which promotes consolidated environmental management as the entire TG Group.



\*The deployment from the company-wide committee to each plant is handled by setting up an expert committee compliant with ISO 14001.



# Environmental Action Plan



## Third Environmental Action Plan (fiscal 2002 to fiscal 2006)

Action Guidelines	Implementation		
	Outline	Effort guidelines	
1. Proactive development and suggestions for environmentally friendly technologies and products as a specialized high-polymer product manufacturer.	(1) Proactive suggestions and development of environmentally friendly built-in products	1) Improvement of fuel economy	• Development of lightweight parts and assemblies for better fuel economy
		2) Reduction of gasoline vapor emissions *1	• Development of products and technologies in strict compliance with regulations
		3) Support for clean energy vehicles	• Development of new parts compliant with de-gasoline fuel
		4) Improvement in recycling efficiency of parts	• Development of technology to improve the recycling efficiency of used car parts
		5) Noise reduction in automobiles	• Development of products and technologies to contribute to noise reduction in cars
	(2) Response to the social movement for environmental conservation	1) Development of environmentally friendly and lower-impact products and technologies	• Efficient utilization of resources and natural recyclable materials • Promotion of LCA *2
2) Control and reduction of substances with environmental impacts		• Planned reduction of substances with environmental impacts  • Establishment and enhancement of substances contained in products	
2. Pursuit of production activities with no emissions	1) Promotion of global warming prevention measures	• Proactive promotion of CO <sub>2</sub> reduction measures Reduction of total CO <sub>2</sub> emissions: targeted at a 5% reduction compared to fiscal 1991 by the end of fiscal 2006	
	2) Control and reduction of substances with environmental impacts	• Voluntary reduction of PRTR substances *3 Reduction of PRTR substance emissions: targeted at a 50% reduction compared to fiscal 1999 by the end of fiscal 2006	
	3) Waste disposal reduction and energy saving	• Promotion of waste disposal reduction and resource saving activities for zero emissions Landfill waste: target of zero by the end of fiscal 2004	
	4) Promotion of distribution rationalization	• Proactive promotion of distribution rationalization to reduce CO <sub>2</sub> emission and packaging materials Reduction of total CO <sub>2</sub> emission: targeted at 15% compared to fiscal 1998 by the end of fiscal 2006 Reduction of packaging materials: targeted at 20% compared to fiscal 2001 by the end of fiscal 2006	
3. Deployment of activities in cooperation and liaison with each TG Group member, including affiliated companies, overseas bases, and suppliers	1) Enhancement of cooperation support activities	Domestic	• Promotion of activities to acquire ISO 14001 • Promotion of green procurement
		Overseas	• Promotion of activities to acquire ISO 14001
4. Participation in local efforts as a member of the community and participation in and support of each employee for social action programs	1) Participation in a recycling-oriented community	• Development of recycling technologies and uses for used car parts	
	2) Participation and support of social action programs	• Participation and support of various local activities and environmental groups	
	3) Education and educational activities for all the employees	• Enrichment and promotion of environmental education	
5. Proactive transmission of environmental information to the local community and TG Group	1) Promotion of PR activities and disclosure of information	• Enrichment of environmental communication activities	

\*1 Gasoline vapor: vapors evaporating from gasoline

\*2 LCA: Life Cycle Assessment

\*3 PRTR: Pollutant Release and Transfer Register

# Environmental Action Plan

Previous Key Efforts	
	Development of next-generation airbags for passenger seats Development of rear combination lamps using LED
	Development of low permeation fuel caps
	Development of all-composite fuel tanks for natural gas cars
	Development of under covers using recycled thermo plastic olefin (TPO) Development of fabric-style foamed TPO materials Change of the material for air suspension covers to TPO
	Development of under covers using recycled TPO
	Launch of the LCA promotion working group (August 2002), inventory data collection, and standardization of LCA assessment method
	Total elimination of lead compounds contained in vulcanized adhesives during 2002 No toluene and xylene in diluted paint thinner for wheel caps High solidification of side molding clear paints Lead-free and hexavalent chromium-free outer and inner weather insert parts Lead-free rubber vulcanized adhesives Hexavalent chromium-free brake hose caps
	Control of substances with environmental impacts using the chemical substance control system
	CO <sub>2</sub> emissions: 120,000 t-CO <sub>2</sub> / fiscal 2003 Introduction of co-generation in the Bisai plant and a switch to high-efficiency lighting and air-conditioning
	PRTR substances emissions: 391 tons / fiscal 2003 (targeted at less than 414 tons)
	Zero landfill waste at all Toyota Gosei plants and offices by the end of December 2002 Development of recycled flocked pile by utilizing base fabric discards for airbags Reduction of layer shift loss by general sharing of cross sections Establishment of recycling technology of TPO outer weather-stripping
	Shortening of mileage through route changes and promotion of local production CO <sub>2</sub> emissions: 11,252 t-CO <sub>2</sub> / fiscal 2003 (targeted at less than 12,111 t-CO <sub>2</sub> ) Packaging materials used: 263 tons / fiscal 2003 (targeted at less than 310 tons)
	Seven out of eight domestic affiliated companies acquired the certificate Efforts started for green procurement within the entire TG Group
	Five out of eight overseas affiliated companies acquired the certificate
	Demonstration of material recycling technology and determination of perspectives
	Participation and support of local zero-garbage actions, etc.
	Publishing environmentally related articles in company newsletters Visits to recyclers by the TG Group
	Issue of Environmental Report 2000-2002