

Environmental Management

Fiscal 2008 Targets and Achievements

Based on the Environmental Initiatives Plan 2010, which outlines Hino Motors' medium-term targets and goals, Hino Motors promotes environmental conservation activities while reflecting an assessment of target achievement levels for each year in the following year's plan.

■ FY2008 Targets and Achievements

Initiatives		Medium- to Long-Term Targets	FY2008 Targets	FY2008 Results	
1	Energy and Global Warming	Management	Further reduction of CO ₂ in global business activities: Formulation of medium- to long-term CO ₂ reduction scenarios and their effective promotion	Promotion of activities in accordance with CO ₂ reduction scenarios at domestic and overseas production subsidiaries	Achieved basic unit targets at domestic and overseas production facilities. Promoted activities aimed at reducing environmental risk at domestic and overseas production subsidiaries
		Development & Design	Aiming for reduced emissions and enhanced fuel efficiency as the unrivaled world leader in diesel vehicle production <ul style="list-style-type: none"> • Achievement of low emissions • Achievement of industry-leading fuel economy standards • Further enhancement in the performance of hybrid systems as well as increase in vehicle models using hybrid systems and areas where hybrid systems are being introduced • Heavy-duty vehicle fuel consumption: Promotion of early market release of vehicles that comply with fuel consumption regulations 	Promotion of industry-leading emission reductions and fuel efficiency	Increased the number of vehicles compatible with the Post Revised Long-Term Emission Regulations in Japan as well as with heavy-duty vehicle fuel consumption regulations of Japan applicable through FY2015
			Development of technology for energy and fuel diversification <ul style="list-style-type: none"> • Assessment of synthetic fuels, etc., and research and development of corresponding technologies 	Implementation of research and development and performance assessment	Inductive Power Transfer (IPT) equipped hybrid bus operating service started on a trial basis during the G8 Hokkaido Toyako Summit and throughout the Tokyo Metropolitan area and Kamikochi in Nagano Prefecture
			Reduction of CO ₂ in		

			production and distribution activities in each country and region		
		Production & Distribution	<i>Production</i> Emissions per sales volume: Reduction of 35% of the 1990 level; Total emissions: Reduction of 10% of the 1990 level	<i>Production</i> Emissions per sales volume: Reduction of 35% of the 1990 level; Total emissions: Reduction of 10% of the 1990 level	<i>Production</i> Emissions per sales volume: Reduction of 40% of the 1990 level; Total emissions: Reduction of 29% of the 1990 level
			<i>Distribution</i> Total domestic emissions: Reduction of 10% of the 1990 level	<i>Distribution</i> Total domestic emissions: Reduction of 10% of the 1990 level	<i>Distribution</i> Total domestic emissions: Reduction of 30% of the 1990 level
2	Resource Recycling	Development & Design	Effective promotion of initiatives for the achievement of a 95% recycling rate by 2015 and its early achievement (1) Further promotion of recyclable design and definite incorporation into products (2) Enhancement of recyclability (easy disassembly) assessment systems (3) Strengthened coordination with disassembly businesses and other related businesses	In Hino Motors: Achievement of a 70% or higher ASR (Automobile Shredder Residue) recycling rate (Automobile Recycling Law of Japan requires 30% or higher)	Achieved 77% ASR recycling rate
		Production & Distribution	Further encouragement of the effective use of resources for the realization of a recycling-oriented society		
			<i>Production</i> Emissions per sales volume: Reduction of 50% of the 1990 level	<i>Production</i> Emissions per sales volume: Reduction of 50% of the 1990 level	<i>Production</i> Emissions per sales volume: Reduction of 67% of the 1990 level
			<i>Distribution</i> Domestic packaging material usage: Reduction of 45% of the 1995 level. Reduction in water usage (set independently by each country)	<i>Distribution</i> Domestic packaging material usage: Reduction of 25% of the 1995 level. Targets set by each overseas subsidiary	<i>Distribution</i> Domestic packaging material usage: Reduction of 68% of the 1995 level. Basic unit targets set at five major overseas subsidiary; promotion of reduction activities
			Management of environmentally hazardous substances and promotion of further reductions <ul style="list-style-type: none"> Introduction of vehicles 	Reduction of 4SOC Compliance with new laws and regulations	Effective achievement of JAMA targets with respect to the reduction of 4SOC

3	Environmentally Hazardous Substances	Development & Design	<p>that have achieved voluntary Japan Automobile Manufacturers Association (JAMA) targets with respect to the reduction of cadmium, lead, hexavalent chromium, and mercury as four Substances of Concern (4SOC) in domestically produced vehicles, beginning in 2006</p> <ul style="list-style-type: none"> • Promotion of the reduction of 4SOC in vehicles produced overseas following domestically produced vehicles • Achievement of vehicle interior volatile organic compound (VOC) reduction standard, beginning with domestically produced new-model vehicles in 2007 	<p>in Japan relating to bromine and other substances.</p> <p>Reduction in vehicle interior VOCs</p>	
		Production & Distribution	Reduction in emissions of substances subject to the PRTR Law		
			<p>Domestic: Reduction of 40% of the 1998 level in emissions</p> <p>Overseas: Setting of more rigorous emission targets based on regulations in each country</p>	<p>Reduction of 40% (692 tons) of the 1998 level in emissions</p> <p>Clarification of emission levels achieved by overseas facilities</p>	<p>Domestic emissions: Reduction of 72% (325 tons) of the FY1998 level</p> <p>Currently collecting data on emission levels achieved by overseas facilities</p>
4	Atmospheric Environment	Development & Design	<p>Reduction in emissions conducive to improvement in the urban atmospheric environment in each country and region</p> <p>Domestic:</p> <ul style="list-style-type: none"> • Development and enlargement of the model series of designated low-pollution vehicles, etc. • Development of vehicles compatible with the Post-New Long-Term Emission Regulations in Japan <p>Overseas:</p> <ul style="list-style-type: none"> • Development and commercialization of technology compatible with US07 and US10 Emission Standards • Development and commercialization of technology compatible with 	<p>Receipt of approval for certified low-emission vehicles in Japan</p> <p>Compliance with designated low-pollution vehicles standard in Japan</p> <p>Determination of the corresponding policy for Post-New Long-Term Emission Regulations of Japan</p>	<p>Promotion of technology development for vehicles compatible with the Post- -</p> <p>Revised Long-Term Exhaust Emission Regulations of Japan</p> <p>Posted new vehicle information for the U.S. market (technology and vehicles compatible with US10 Exhaust Emissions Standards) on the Internet</p>

		Euro4 and Euro5 Emission Standards	Determination of the corresponding policy for overseas regulations	
	Production & Distribution	Reduction in VOC emissions Domestic: Emissions (vehicle-body paint): 35 g/m ² or less	Domestic: Emissions (vehicle-body paint): 35 g/m ² or less (Hamura Plant)	Domestic: Emissions (vehicle-body paint): 26.3 g/m ² (Hamura Plant)
		Overseas: Setting of targets in each country	Overseas: Clarification of emission levels achieved by overseas facilities	Overseas: Clarification of the coverage of overseas facilities. Ongoing clarification of results and achievements
	Management	Reinforcement of consolidated environmental management		
		<i>Production entities</i> <ul style="list-style-type: none"> Expansion of eco-factory activities into overseas production subsidiaries effectively incorporating environmental measures from the planning stage 	Expansion of eco-factory activities into domestic and overseas production subsidiaries	Activities implemented at four proprietary production facilities, two domestic and three overseas companies as a part of related subsidiary projects
		<i>Non-production entities</i> <ul style="list-style-type: none"> Global management of and enhancement in environmental performance, including CO₂, by all entities 	Consolidation of environmental data of subsidiaries every month	Consolidation of environmental data of subsidiaries every month
		<i>Global Environment Council</i> <ul style="list-style-type: none"> Group-wide initiatives for environmental conservation through periodic councils 	Production Environment Council meetings held at related overseas companies	Production Environment Council meetings held at related overseas companies
		Further promotion of environmental management by business partners	Implementation of activities in line with Hino Green Purchasing Guidelines	Authorization ratio of Eco-Management Dealers: 195/200 facilities (89%)
		<i>Suppliers</i> <ul style="list-style-type: none"> Further enhancement of activities in collaboration with suppliers, and enhancement of management of environmentally hazardous substances 	Establishment of evaluation rules through a pre-evaluation system	Confirmation of SOC by pre-evaluation system
		<i>Domestic Dealers</i>		

5	Environmental Management	<ul style="list-style-type: none"> Promote high-level environmental enhancement activities of sales offices based on Dealer Environmental Guidelines 	Conduct dealer EMS / 5S audit and support corrective measures	Held Dealer Environment Council meetings; implemented activities at all 220 dealers; and implemented manufacturer audits at 117 locations
		Management of appropriate equipment and tasks in compliance with environment-related laws and regulations	Target: EMD confirmation rate of 90%	Achieved EMD* confirmation rate of 92%, and accreditation of 202 locations (up seven locations year on year) * EMD: Eco-Management Dealer
		Initiatives for reduction activities based on an understanding of the volume of energy usage and waste material emissions	Target: reduce CO ₂ , waste and water usage by 3% compared to FY2006	Results: reduced CO ₂ by 6%, waste by 21%, and water usage by 8%; achieved decrease of waste through sale and recycling
		<i>Overseas Dealers</i> <ul style="list-style-type: none"> Clarification of the amount of CO₂, generated in the operations of sales agencies overseas 	Periodic access and receipt of monthly energy utilization data	Consolidation of data with six overseas non-production facilities
		Enhancement of environmental education: Continued implementation of environmental education to boost employees' awareness of the environment	Holding of environmental lectures	Environment lecture by President Shirai held on July 11 in Japan
		Introduction of comprehensive environmental assessment systems for vehicles, taking the LCA (life cycle assessment) approach into account <ul style="list-style-type: none"> Development of a promotion structure, and the preparation and operation of the work environment (database, computer networks, etc.) 	Expansion of CO ₂ reduction activities based on the LCA approach	Clarification of life cycle-related CO ₂ emission volumes and the launch of reduction initiatives
		Contribution to environmental conservation activities		
		<ul style="list-style-type: none"> Contribution to society through the management of the Hino Green Fund 	Promotion of Hino Green Fund activities	The Fund distributed aid totaling ¥9.11 million to 17 organizations; conducted onsite visits to four organizations that received aid in the previous fiscal year; and actively promoted collaborative efforts in a variety of regional activities (support for public relations concerning events, provision of corporate buses, etc.)
		<ul style="list-style-type: none"> Contribution to communities through environmental education from a long-term perspective 	Promotion of community-based activities	Participated in the Cherry Blossom Festival in May; held Planning Committee meetings in May through September; conducted bus tour of Gunma Insect World on July 26; held

				charcoal making event on October 11; held environment lecture on February 10, 2009
		Collaboration with society in Japan	Disclosure of environmental information and enhancement of interactive communication	
			<ul style="list-style-type: none"> Provision of eco-driving information to customers 	<p>Implementation of eco-driving education, through the Customer Technical Center</p> <p>Number of visitors in FY2008: 5,503 (Cumulative total since commencement: 18,337)</p>
			<ul style="list-style-type: none"> Further enhancement of environmental reports in each country and region 	<p>Issuance of the Hino Motors CSR Report</p> <p>Issued the Hino Motors <i>CSR Report 2008</i>; issued the <i>Hinopak Motors Environmental & Social Report</i> on February 10</p>
			<ul style="list-style-type: none"> Further global enhancement of communication with local communities 	<p>Promotion of local communication</p> <p>Undertook community cleanup activities with local elementary schoolchildren in Pakistan; held social gatherings with residents of areas in close proximity to Hino Motors' domestic plants</p>
			Active contribution to and recommendations for environmental policies taking sustainable development into account	
			<ul style="list-style-type: none"> Promotion of environmental initiatives established by Nippon Keidanren, JAMA, and other industry organizations 	<p>Active participation in the activities of JAMA and other organizations</p> <p>Participation in JAMA committees and working groups (Safe Environment Technology Committee, Environment Committee, etc.)</p>