



Environmental Management

Fiscal 2010 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.

■FY2010 Targets and Achievements

Initiatives		Medium- to Long-Term Targets	FY2010 Targets	FY2010 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 improved results for basic unit targets at domestic and overseas plants compared to the previous fiscal year
		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 	Widen efforts to establish and promote industry-leading standards for exhaust gas emissions and fuel efficiency	Increased the number of vehicles that comply with Post Revised Long-Term Emission Regulations in Japan as well as with heavy-duty vehicle fuel consumption regulations in 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	<ul style="list-style-type: none"> • Conducted performance demonstrations of hybrid buses that use a mixture of Fischer-Tropsch Diesel (FTD) fuel and bio-hydrorefined diesel (BHD) fuel • Supplied a fuel-cell hybrid bus for a commercial route between central Tokyo and Haneda Airport

			Reduction of CO ₂ in production and distribution activities in each country and region		
		Production & Distribution	<p><i>Production</i> Emissions per sales volume: Reduction of 35% of the 1990 level; Total emissions: Reduction of 10% of the 1990 level</p>	<p><i>Production</i> Emissions per sales volume: Reduction of 35% of the 1990 level; Total emissions: Reduction of 10% of the 1990 level</p>	<p><i>Production</i> Emissions per sales volume: Reduction of 42% of the FY1990 level; Total emissions: Reduction of 21% of the FY1990 level</p>
			<p><i>Distribution</i> Total domestic emissions: Reduction of 10% of the 1990 level</p>	<p><i>Distribution</i> Total domestic emissions: Reduction of 10% of the 1990 level</p>	<p><i>Distribution</i> Total domestic emissions: Reduction of 37% of the FY1990 level</p>
2	Resource Recycling	Development & Design	<p>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</p>	<p>In Hino Motors: Achievement of a 70% or higher ASR (Automobile Shredder Residue) recycling rate (Automobile Recycling Law of Japan requires 50% or higher)</p>	<ul style="list-style-type: none"> Achieved an ASR recycling rate of 87% in FY2010 Evaluated disassembly of new light-duty trucks and began production of a disassembly manual for disassembly businesses and other related businesses
		Production & Distribution	Waste emissions including salable and recyclable per sales volume.	Step up efforts to use resources in ways conducive to realizing a recycling-oriented society	
			<p><i>Production</i> Emissions per sales volume: Reduction of 50% of the 1990 level</p>	<p><i>Production</i> Emissions per sales volume: Reduction of 50% of the 1990 level</p>	<p><i>Production</i> Emissions per sales volume: Reduction of 71% of the 1990 level</p>
			<p><i>Distribution</i> Domestic packaging material usage: Reduction of 45% of the 1995 level. Reduction in water usage (set independently by each country)</p>	<p><i>Distribution</i> Domestic packaging material usage: Achieve reduction of 45% of the FY1995 level</p>	<p><i>Distribution</i> Domestic packaging material usage: Reduction of 74% of the 1995 level.</p>
			<p><i>Water usage</i></p>	<p><i>Water usage</i> Set specific targets in each country of operations to reduce water usage</p>	<p><i>Water usage</i> Basic unit targets set at five major overseas subsidiaries; promotion of reduction activities</p>
		<p>Management of environmentally hazardous substances and promotion of further reductions</p> <ul style="list-style-type: none"> Introduction of vehicles that have achieved voluntary Japan Automobile Manufacturers Association (JAMA) targets with respect to the reduction of cadmium, lead, hexavalent 	<p>Reduction of 4SOC Compliance with new laws and regulations in Japan relating to bromine and other substances. k Reduction in vehicle interior</p>	<p>Effective achievement of JAMA targets with respect to the reduction of 4SOC</p>	

3	Environmentally Hazardous Substances	Development & Design	<p>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 	VOCs	
		Production & Distribution	Reduction in emissions of substances subject to the PRTR Law	Reduce emissions of substances subject to the PRTR Law	
			Domestic: Reduction of 40% of the 1998 level in emissions	Domestic: Reduce emissions of substances by 40% compared to the FY1998 level	Domestic: Achieved reduction of 67% of the FY1998 level
Overseas: Setting of more rigorous emission targets based on regulations in each country	Overseas: Determine the status of emissions for the management of VOCs	Overseas: Continued to compile and organize data			
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 Euro4 and Euro5 Emission Standards 	<p>Receipt of approval for certified low-emission vehicles in Japan</p> <p>Compliance with designated low-pollution vehicles standard in Japan</p> <p>Commercialization of vehicles that conform to the Post-New Long-Term Emission Regulations of Japan</p>	<p>Increased the number of vehicles that comply with the Post Revised Long-Term Emissions Regulations</p> <p>Increased the number of vehicles designated as low-pollution vehicles</p>
		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)
Overseas: Develop initiatives to achieve the	Overseas: Clarification of		Overseas: Continued to		

		strictest level of reductions in each country of operations	emission levels achieved by overseas facilities	determine performance and promote reductions based on targets set at each facility
		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 	<i>Production entities</i> Expansion of eco-factory activities into domestic and overseas production subsidiaries	<i>Production entities</i> 1 project implemented at an affiliated company overseas
		<i>Non-production entities</i> <ul style="list-style-type: none"> Global management of and enhancement in environmental performance, including CO₂, by all entities 	<i>Non-production entities</i> Share environmental data collected monthly from domestic and overseas subsidiaries	<i>Non-production entities</i> Ongoing sharing of data commenced
		<i>Global Environment Council</i> <ul style="list-style-type: none"> Group-wide initiatives for environmental conservation through periodic councils 	<i>Global Environment Council</i> <ul style="list-style-type: none"> Production Environment Council meetings held at overseas companies Set up regional environment councils 	<i>Global Environment Council</i> <ul style="list-style-type: none"> Overseas Production Environment Council Meetings held regularly Meetings held by the North America Regional Environment Council A meeting of the Southeast Asia Regional Environment Council held in May 2011
		Further promotion of environmental management by business partners		
		<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 	<i>Suppliers</i> Employ pre-evaluation system	<i>Suppliers</i> Confirmation of Substances through a pre-evaluation system
		<i>Domestic Dealers</i> <ul style="list-style-type: none"> Promote high-level environmental enhancement activities at sales offices based on Dealer Environmental Guidelines 	<i>Domestic Dealers</i> Conduct environmental enhancement activities at all sales offices in Japan	<i>Domestic Dealers</i> Environmental improvement activities implemented at 221 business locations of dealers in Japan Support provided for improvements and corrective measures
		Management of appropriate	Target: EMD	In-house Eco-

5	Environmental Management	Management	equipment and tasks in compliance with environment-related laws and regulations	confirmation rate of 95%	Management Dealer (EMD) certification standards verified at 96% of domestic dealers, and 212 locations accredited, up 5 locations compared to fiscal 2009
			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 5% compared to FY2006	Domestic dealers reduced CO ₂ by 11%, waste by 25%, and water usage by 16%; waste decreased 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 	<i>Overseas Dealers</i> Periodic access and receipt of monthly energy utilization data	<i>Overseas Dealers</i> Consolidated data with 6 overseas non-production facilities
			Enhancement of environmental education: Continued implementation of environmental education to boost employees' awareness of the environment	<ul style="list-style-type: none"> Continue to conduct environmental awareness surveys and consider policies Promote environmental awareness by promoting Environment Month and other means Conduct environmental training in environment management systems and in-house systems 	<ul style="list-style-type: none"> Conducted environmental awareness surveys and set policies for fiscal 2011 onward Held environmental exhibitions and presented awards during Environment Month in June Conducted environmental training according to plans
			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.) 	<ul style="list-style-type: none"> Introduce the Eco-Vehicle Assessment System (Eco-VAS) Expand business initiatives for reducing CO₂ emissions based on the LCA approach Implement a comprehensive environmental evaluation system for vehicle development processes based on the LCA approach at the stages of 	For new light-duty trucks: <ul style="list-style-type: none"> Developed Eco-VAS business initiatives Moved ahead with measures to determine and reduce CO₂ emissions over the product life cycle

		production, usage, and final disposal	
Collaboration with society in Japan	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	<p>The following support was provided to organizations to assist their projects and operations</p> <p>Charitable projects: Approximately 7.4 million yen was donated to 17 organizations, and their activities were publicly promoted</p> <p>Independent projects: Events held included a bus tour to Gunma Insect World, a charcoal-making event, and environmental lectures</p> <p>Community activities: Employees participated in cleanup activities at areas around the Tamagawa and Asakawa rivers in Hino City with conservation group, Cosmos Avenue</p>
	<ul style="list-style-type: none"> Contribution to communities through environmental education from a long-term perspective 	Promotion of community-based activities	<ul style="list-style-type: none"> Employees participated in rural area conservation activities organized by the Minamino Nature School Environmental events were held for local school children in Pakistan and Indonesia to help raise environmental awareness
	Disclosure of environmental information and enhancement of interactive communication		
	<ul style="list-style-type: none"> Provision of eco-driving information to customers 	Implementation of eco-driving education, through the Customer Technical Center	<ul style="list-style-type: none"> Visitors in FY2010 numbered 6,994, for a cumulative total of 30,527 since establishment
<ul style="list-style-type: none"> Further enhancement of 	Issuance of the Hino	<ul style="list-style-type: none"> Reports were 	

		environmental reports in each country and region	Motors CSR Report	issued by 2 subsidiaries in Japan and 1 subsidiary overseas
		<ul style="list-style-type: none"> • Further global enhancement of communication with local communities 	Promotion of local communication	<ul style="list-style-type: none"> • All of Hino Motors' plants in Japan held social gatherings with local residents • Subsidiaries in Japan and abroad continued activities designed to engage with local communities
		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 	Active participation in the activities of JAMA and other organizations	Participation in JAMA committees and working groups (Safe Environment Technology Committee, Environment Committee, etc.)

Previous reports

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