

CSR

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Environmental Initiatives Plan (Fiscal 2012 Targets and Achievements)



■Environment Initiative Plan

Frame	Field	Item	Specific Action Items/Targets, etc.	Fiscal 2012 Achievements											
Building a Low-carbon Society	Development & Design	Develop and promote next-generation vehicle based on energy diversity	<Electrical Energy> <ul style="list-style-type: none"> Hybrid vehicle (HV): Develop and market new HV Inductive Power Transfer System (IPS): Develop IPS bus for commercialization Fuel cell (FC): Research and develop fuel-cell automobile <Alternative Fuels> <ul style="list-style-type: none"> New fuels: Research and develop vehicle that will run on GTL(Gas to Liquids) fuel Biofuels: Research and develop vehicle that will run on biofuel 	<ul style="list-style-type: none"> Commenced test runs of electric light-duty trucks in collaboration with Yamato Transport Co., Ltd. and Toyota Motor Corporation Commenced test runs of IPS buses in a model project for electric bus operation carried out in the city of Hitachi Continued small-sized electric bus service for fixed routes in the city of Hamura and Tokyo's Sumida Ward, and commenced small-sized electric bus service in the city of Komatsu Cumulative sales of hybrid trucks and buses exceeded 10,000 units 											
		Develop top-class fuel efficiency performance in each country/region, and meet standards in each country	<ul style="list-style-type: none"> Develop technologies to meet world's top-class fuel efficiency standards -Japan: Achieve FY 2015 fuel-efficiency standard -United States: Meet 2014 new standards for fuel efficiency and greenhouse gases in heavy vehicles -Europe: Develop technologies to improve fuel efficiency to meet next round of regulations -China: Consistently meet new fuel-efficiency standards -Other regions: Promote technologies to meet fuel-efficiency regulations 	<ul style="list-style-type: none"> Increased the number of vehicles that will meet Japan's heavy-duty vehicle fuel consumption regulations in fiscal 2015, and produced vehicle lineups eligible for new eco-car tax rebates Promoted development of technologies that improve fuel consumption to effectively respond to global demand 											
	Production & logistics	Thoroughly conserve energy and reduce greenhouse gas emissions in production activities	<ul style="list-style-type: none"> Act throughout the company to build low-carbon production system Actively Introduce low-CO2 production technologies, and reduce CO2 through daily improvements Consider to exploit renewable energy Energy Derived CO2 <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Region</th> <th>Item</th> <th>FY 2012 Target</th> </tr> </thead> <tbody> <tr> <td>Global</td> <td>Emissions per unit yield</td> <td>4% less than FY 2008</td> </tr> <tr> <td>Japan Group</td> <td>Emissions</td> <td>12% less than FY 1990 (Average from FY2008 to FY2012)</td> </tr> <tr> <td>Hino</td> <td>Emissions</td> <td>12% less than FY 1990 (Average from FY2008 to FY2012)</td> </tr> </tbody> </table>	Region	Item	FY 2012 Target	Global	Emissions per unit yield	4% less than FY 2008	Japan Group	Emissions	12% less than FY 1990 (Average from FY2008 to FY2012)	Hino	Emissions	12% less than FY 1990 (Average from FY2008 to FY2012)
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Building a Low-carbon Society	Production & logistics	Make transportation more efficient and reduce CO2 emissions in logistics	<ul style="list-style-type: none"> Promote initiatives to reduce CO2 emissions in logistics by improving efficiency of transportation. <table border="1"> <thead> <tr> <th>Region</th> <th>Item</th> <th>FY 2012 Target</th> </tr> </thead> <tbody> <tr> <td>Japan Group</td> <td>Emission per unit of transport*</td> <td>12% less than FY 2008</td> </tr> <tr> <td>International</td> <td colspan="2">Set target and promote reduction activities</td> </tr> </tbody> </table> <p>*Definition of "unit of transport": multiply freight(in ton) by distance(km)</p>	Region	Item	FY 2012 Target	Japan Group	Emission per unit of transport*	12% less than FY 2008	International	Set target and promote reduction activities		<ul style="list-style-type: none"> Consolidated Companies in Japan <ul style="list-style-type: none"> Reduced emissions per unit of transport volume by 16% compared to FY2008 Overseas Operations <ul style="list-style-type: none"> In the process of compiling CO2emissions results from distribution operations
	Region	Item	FY 2012 Target										
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Sales	Thoroughly conserve energy and reduce CO2 emissions in sales activities	<ul style="list-style-type: none"> Continual improvement at Japanese and international sales offices; thoroughly conserve energy through lateral deployment of case studies ⇒Create and execute plan to reduce energy consumption per unit by at least 1% per year 	<p>Reduced emissions by introducing energy-saving lights and restricting air conditioning use</p> <p>⇒Decreased total energy consumption per unit by 1.6% compared to the previous fiscal year</p>										
Collaboration with society	<p>Active communication and contribution to climate change mitigation policies</p> <p>Integrated CO2 reduction initiatives in road traffic sector (transportation division)</p>	<ul style="list-style-type: none"> Promote initiatives to build low-carbon society through Japan Business Federation, Japan Automobile Manufacturers Association, etc. -Participate in environmental policy debate and framework creation -Integrated initiatives in partnership with JAMA, etc. Contribute to initiatives to improve transportation using IT and ITS technologies Promote initiatives to raise awareness of environmentally friendly driving -Provide workshops on fuel-efficient driving at Customer Technical Center at Hamura plant, Japan. -Provide workshops at sales companies in Japan and internationally -Expand issuance of environmentally friendly driving certifications to customers -Develop vehicles that perform logistics efficiently, in accordance with customer usage 	<p>Worked with the Japan Automobile Manufacturers Association and participated in its committees, including a safe environmental technologies committee and an environment committee</p> <ul style="list-style-type: none"> Held Eco Drive seminars for customers Number of participants in fiscal 2012 totaled 6,506 in Japan and 3,882 overseas Issued 3, certificates to customers completing a course in cooperation with the Foundation for Promoting Personal Mobility and Ecological Transportation Proceeded to develop vehicles that achieve high efficiency in distribution 										

Frame	Field	Item	Specific Action Items/Targets, etc.	Fiscal 2012 Achievements																																
Creation of Closed Loop Economy	Development & design	Further promote recycling design with awareness of effective use of resources	<ul style="list-style-type: none"> Initiatives to create assembled structures that are easy to disassemble Use more parts made using recycled materials 	<ul style="list-style-type: none"> Proactively adopted recycled materials and easily recyclable materials Created manuals for explaining disassembly 																																
	Production & logistics	Reduce discharges from production and logistics, and use resources effectively	<p><Amount of Discharges & Final Disposal></p> <ul style="list-style-type: none"> Reduce discharges at source, e.g. by improving yields Reduce waste by encouraging reuse within the company Encourage use of valuable materials within Hino Group Zero final disposal to landfill <table border="1"> <thead> <tr> <th>Region</th> <th>Object</th> <th>Item</th> <th>FY 2012 Target</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Japan Group</td> <td rowspan="2">Discharges *1</td> <td>Generated per unit yield</td> <td>16% less than FY 2008</td> </tr> <tr> <td>Final disposal</td> <td>Zero *2</td> </tr> <tr> <td>International</td> <td>Waste</td> <td colspan="2">Set target and promote reduction activities</td> </tr> </tbody> </table> <p>*1: Definition: Discharges to outside company including salable waste. *2: Definition of Zero: Landfill amount including ash after incineration is not more than 0.5%, compared with total waste including recyclable.</p> <p><Packaging Materials></p> <ul style="list-style-type: none"> Enable use of returnable racks in more countries Expand use of returnable racks for spare parts <table border="1"> <thead> <tr> <th>Region</th> <th>Item</th> <th>FY 2012 Target</th> </tr> </thead> <tbody> <tr> <td>Japan Group</td> <td>Use per unit of shipment volume</td> <td>34% less than FY 2008</td> </tr> <tr> <td>International</td> <td colspan="2">Set target and promote reduction activities</td> </tr> </tbody> </table> <p><Water Usage></p> <ul style="list-style-type: none"> Actively introduce water-saving technologies Conserve water through continual improvement <table border="1"> <thead> <tr> <th>Region</th> <th>Item</th> <th>FY 2012 Target</th> </tr> </thead> <tbody> <tr> <td>Japan Group</td> <td>Water use per unit yield</td> <td>18% less than FY 2008</td> </tr> <tr> <td>International</td> <td colspan="2">Set target and promote reduction activities</td> </tr> </tbody> </table>	Region	Object	Item	FY 2012 Target	Japan Group	Discharges *1	Generated per unit yield	16% less than FY 2008	Final disposal	Zero *2	International	Waste	Set target and promote reduction activities		Region	Item	FY 2012 Target	Japan Group	Use per unit of shipment volume	34% less than FY 2008	International	Set target and promote reduction activities		Region	Item	FY 2012 Target	Japan Group	Water use per unit yield	18% less than FY 2008	International	Set target and promote reduction activities		<p>[Waste Generated and Final Disposal]</p> <ul style="list-style-type: none"> Consolidated Companies in Japan <ul style="list-style-type: none"> Reduced amount of waste generated per unit by 22% compared to FY2008 Achieved a final disposal rate of 0.19% Overseas operations <ul style="list-style-type: none"> Set targets for waste matter in each country and proceeded to make reductions <p>[Packaging Materials]</p> <ul style="list-style-type: none"> Consolidated Companies in Japan <ul style="list-style-type: none"> Reduced amount of packaging materials used per unit of shipment volume by 51% compared to FY2008 Overseas operations <ul style="list-style-type: none"> Currently compiling results <p>[Water Usage]</p> <ul style="list-style-type: none"> Consolidated Companies in Japan <ul style="list-style-type: none"> Reduced water usage per unit by 28% compared to FY2008 Overseas operations <ul style="list-style-type: none"> Set targets in each country and proceeded to make reductions
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Sales & recycling	<p>Enhance global promotion of effective use of resources</p> <p>Promote global compliance with automobile recycling laws</p>	<ul style="list-style-type: none"> Develop tools and offer information globally on efficient disassembly methods Promote initiatives within group to expand use of used parts Japan: Maintain top recycling level, and respond appropriately to revisions to law China & emerging economies: Respond appropriately to regulations of each country 	<ul style="list-style-type: none"> Japan: Achieved a 94% recycling rate for automotive shredder residue (ASR) in fiscal 2011 Overseas: Promoted compliance with end-of-life vehicle (ELV) regulations 																																	

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Environmental Conservation & Creation of Society Coexisting in Harmony with Nature	Development & design	Reduce gas emissions to help improve urban air quality in each country and region	<p>Introduce vehicles with lower gas emissions to help improve urban air quality in each country and region</p> <ul style="list-style-type: none"> -Japan: Continue to bring vehicles to market that comply with Post New Long-term Regulations <ul style="list-style-type: none"> Research and develop new technologies to comply with new exhaust regulations starting in 2016 -United States: Bring vehicles to market that comply with US10 -Europe: Research, development, and compliance with new EURO6 regulations -China: Promote introduction of EURO5 level -In general: Introduce low-emission vehicles (EURO3 or 4 level) 	<ul style="list-style-type: none"> Researched technologies for reducing exhaust emissions and developed component technologies for future engines in preparation for the next period of stricter exhaust regulations in Japan, effective from 2016 										
		Expand and enhance management of chemicals contained in products	<ul style="list-style-type: none"> Promote global management of chemicals in products -Thoroughly manage multiple chemical substances contained in products -Develop technologies to substitute substances with lower environmental impact, and promote substitution 	<ul style="list-style-type: none"> Created and adopted more efficient chemical substance management systems in response to changes in international chemical substance regulations 										
	Production	Reduce substances that impact the environment in production activities	<ul style="list-style-type: none"> Reduce usage of paints and paint thinner in painting processes, etc. promote reduction of VOCs through constant improvement <p>Body Painting</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Item</th> <th>FY 2012 Target</th> </tr> </thead> <tbody> <tr> <td>Hino</td> <td>VOC Emissions per surface area painted</td> <td>Not more than 24 g/m² (Average for all lines)</td> </tr> <tr> <td>International</td> <td colspan="2">Activities to reduce VOC emissions in each country</td> </tr> </tbody> </table> <p>Other Paintings</p> <table border="1"> <tbody> <tr> <td>Japan/Intl.</td> <td>Activities to reduce VOC emissions</td> </tr> </tbody> </table>	Region	Item	FY 2012 Target	Hino	VOC Emissions per surface area painted	Not more than 24 g/m ² (Average for all lines)	International	Activities to reduce VOC emissions in each country		Japan/Intl.	Activities to reduce VOC emissions
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Collaboration with society	Commitment to biodiversity	<ul style="list-style-type: none"> Give consideration to local ecosystems in each country and region Raise employees' awareness of protecting ecosystems, and encourage volunteering (Promote activities based on Japan Business Federation Declaration of Biodiversity) 	<p>Implemented initiatives to enhance ecosystems surrounding company sites in each country and region where the Group operates</p> <ul style="list-style-type: none"> Conducted mangrove tree planting in Oume Held cleanups and weeded fields using goats in Hidaka and Koga Collaborated with the Indonesian World Wildlife Fund to protect coral reefs Planted mangrove forests in Thailand 											
	Promote contributions to society that help create society coexisting in harmony with nature													

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Environmental Management	Management	Strengthen and promote group environmental management	<ul style="list-style-type: none"> • Activities to ensure top level of environmental performance in each country and region • Comply with environmental laws in each country and region, and enhance activities to prevent environmental risk • Introduce area management organizations at production sites outside Japan, and promote rational initiatives • Improve level of environmental management through mutual audits by each company at production sites in Japan 	<ul style="list-style-type: none"> • Compiling reports for regular publication on environmental performance and improvement initiatives at affiliated companies • Promoting eco-factory activities around the world • Developing environmental risk assessment methods for the entire Group together with affiliated companies • Holding Environment Council meetings in the Southeast Asian region
		Promote environmental activities in collaboration with business partners	<ul style="list-style-type: none"> • Suppliers: Compliance with laws by suppliers, and enhance management of substances that impact the environment contained in parts, raw materials, secondary materials, production equipment, etc. Request for environmental performance activities • Sales in Japan: Promote environmental activities by sales companies via each Environmental Management System. • Sales outside Japan: Act continually to raise awareness of the environment 	<ul style="list-style-type: none"> ■Suppliers <ul style="list-style-type: none"> • Began improving and employing in-house chemical management systems to account for stricter global chemical substance regulations ■Consolidated subsidiaries in Japan <ul style="list-style-type: none"> • Implemented environmental improvement activities at 223 business sites across Japan to facilitate improvements and upgrades • Certified 213 dealers as Eco-Management Dealers (two dealers were not renewed and one dealer was added compared to the previous year, for a certification rate of 96%) ■Overseas Sales Operations <ul style="list-style-type: none"> • Shared environment-related data monthly with overseas sales offices • Held events to promote environmental awareness during World EnvironmentMonth in June

Environmental Management	Management	Promote global CO2 management	<ul style="list-style-type: none"> Plan and promote CO2 management in all business activities 	Carried out activities according to reduction scenarios at all business sites in Japan and overseas, and made improvements on a total unit output basis
		Promote environmental management ECO-VAS in product development	<ul style="list-style-type: none"> Ensure management of environmental targets during development using vehicle environmental assessment system (ECO-VAS) 	Increased bus models subject to life cycle assessment
		Promote "sustainable-plant" activities	<ul style="list-style-type: none"> Plant designs in harmony with nature. ⇒ Actively introduce low CO2 production technologies, and promote continual improvement, exploit renewable energy, and forest creation in and around plants. 	Introduced technologies to reduce CO2 emissions during factory construction
		Enhance and promote environmental education	<ul style="list-style-type: none"> Systematic environmental education that raises employees' awareness of the environment Continually survey employees' environmental awareness, and raise awareness in accordance with results Roll out group activities for Environment Month in partnership with Toyota Group 	<ul style="list-style-type: none"> Implemented online environmental education, carried out graded training programs, and provided education and tests on ISO internal environmental audits Designed graded training courses Conducted an environmental awareness survey Distribution of president message to employee and affiliated companies. Held environmental exhibitions and presented various awards
		Actively disclose environmental information and enhance communication	<ul style="list-style-type: none"> Enhance provision of information on product environmental technologies in each country and region (e.g. exhibiting at expos) Continually publish CSR reports and other documents in each country and region, and publish at more sites Enhance environmental communication in each country and region 	<ul style="list-style-type: none"> Showcased Hino Motors' next-generation hybrid systems and environmental technologies at auto shows, including the Automotive Engineering Exposition and Technical Review of Hino Motors Hino Motors was awarded a 2012 outstanding parts production prize in the automotive parts category from the Conference for the Promotion of Monozukuri in Japan for its high-performance compact exhaust gas cleaning system made for large commercial vehicles Issued CSR reports at four consolidated subsidiaries in Japan and overseas Carried out interactive events with community residents at consolidated subsidiaries in Japan and around the world