

Sixth Medium-Term Action Plan for Environmental Preservation

Area of Initiatives	Action Targets (FY2009-FY2012)	FY2012 Results	FY2012 Self evaluation
Management Develop an appropriate organizational structure to achieve effective environmental management while fostering environmental awareness among all employees			
Environmental management system	Strengthen collaboration and share goals with overseas production bases	Shared action items with overseas bases	○
Action on environmental risks.	Maintain the current system for domestic business locations	Updated environmental risk map data	○
	Recognize and reduce environmental risks of overseas business locations	Prepared assessments for overseas bases	△
Eco-efficiency	Examine and introduce an eco-efficiency indicator	Continued investigation of eco-efficiency indicators (Decided in FY2010 it was too early to introduce an indicator)	○
Environmental communication	1.Periodical publication of environmental reports	1.Published CSR Report online (September 2012)	○
	2.Information distribution via the Internet	2.Distributed information via our website	○
	3.Promote disclosure of environmental information for business locations	3.Disclosed some environment-related information	○
Environmental education	1.Promote organized environmental education	1.Conducted educational programs for new employees and managers, and employees to be seconded overseas. Conducted educational program on biodiversity for engineers.	○
	2.Promote educational activities encouraging action in employee households	2.Published educational information in the company newsletter, company magazine, intranet and other media.	○
	3.Examine and conduct global environmental education	3. Surveyed and examined education content	×
Environmental accounting	Regularize environmental accounting. Expand accounting scope	Aggregated costs and benefits	○
Environmental initiatives through our products Reduce the environmental impact of products through environmentally conscious design and development			
Design for the environment	1.Promote LCA	1.Evaluated simplified LCI calculation tool for automotive components made available by the Japan Auto Parts Industries Association (JAPIA)	○
	2.Examine environmental impact efficiency and trial measures	2.Internally applied calculation guides for visualizing the environmental contribution of electronic components. Examined methods for complying with GHG Protocol Scope 3 and estimated GHG emissions during commuting by employees in Japan.	○
Chemical substance management	1.Establish a new management system for chemical substances	1.Made improvements to operation of the new chemical substance management system (Green-AXIS)	○
	2.Maintain non-use of banned substances	2.Revised in-house standards to include new additions to the REACH SVHC Candidate List and reflect changes to the Global Automotive Declarable Substance List (GADSL)	○
	3.Reduce environmentally hazardous substances	3.Ensured knowledge within the company of prohibited uses following the end to RoHS directive exemptions	○
Green procurement	Propagate green procurement	Amended the Alps Green Procurement Standard and have informed bases	○
Environmental initiatives in our plants and offices Reduce the environmental impact of production processes and office operation			
Prevention of global warming	1.Reduce greenhouse gas emissions: Reduce average of greenhouse gas emissions during FY2008 to FY2012 (5 years) by 20% of FY1990 level (Japan)	1.CO2 emissions: 44,888 tons. FY2008-12 average: 49,204 tons. 55.0% reduction (improvement) from base year (FY1990).	○
	2.Reduce CO ₂ emissions: Reduce FY2012 CO ₂ emissions from energy consumption per unit of output by 5% of FY2007 level (Japan)	2.CO ₂ emissions per unit of output: 38.0 tons/100 million yen. 24.2% reduction (improvement) from base year (FY2007). 1.3% reduction (improvement) from previous year (FY2011).	○
	3.Reduce CO ₂ emissions: Reduce CO ₂ emissions, every year, from energy consumption by 1% of the previous fiscal year level (Japan)	3.CO ₂ emissions reduction: 665 tons. 1.49% reduction (improvement) from previous year (FY2011).	○
	4.Reduce energy consumption of overseas bases: Bases set individual FY2012 reduction targets for CO ₂ emissions coming from energy consumption (Global)	4.Bases have set their targets	○
	5.Reduce greenhouse gas (excluding CO ₂) emissions: Contain greenhouse gas emissions (excluding CO ₂) to FY2007 level (Japan)	5.Greenhouse gas emissions (excluding CO ₂) fluctuated between 1500 and 2000 tons (CO ₂ equivalent)	○

Self-evaluation ○:Achieved, △:Partly achieved, ×:Unachieved

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Recycling	1.Maintain and improve "zero-emissions" performance: Achieve a waste recycling rate of 98% in FY2012 (Japan) Bases set individual FY2012 recycling rate targets (Global)	1.(Japan) Recycling rate: 99.1 %. 0.8-point increase (improvement) from previous year (FY2011). (Global) Bases have set their targets	○ △
	2.Reduce total waste emissions: Reduce FY2012 total waste emissions per unit of output by 3% from the FY2007 level (Japan)	2.Total waste emissions per unit of output: 4.35 tons/100 million yen. 2.4% increase (deterioration) from base year (FY2007). 26.2% increase (deterioration) from previous year (FY2011).	×
	3.Promote an electronic manifest system: Promote use of an electronic manifest system (Japan)	3.Proportion of material converted into electronic data: 92.2 %. 8.8-point increase (improvement) from previous year (FY2011).	○
	4.Reduce paper use: Reduce FY2012 paper use by 10% of FY2007 level (Japan) Bases set individual FY2012 reduction targets (Global)	4.(Japan) Paper usage: 42.5 tons 48.2% reduction (improvement) from base year (FY2007). 8.6% reduction (improvement) from previous year (FY2011). (Global): bases have set their targets	○ △
	5.Reduce water use: Reduce FY2012 water use by 13% of FY2007 level (Japan)	5.Water usage: 471,307 tons. 29.5% reduction (improvement) from base year (FY2007). 1.3% reduction (improvement) from previous year (FY2011)	○
Chemical substance management and emission reductions	1.Proper management of chemical substances: Reduce contamination risk by promoting appropriate management of chemical substances.	1.Assessed emergency risks, installed equipment to prevent leakage, and conducted drills	○
	2.Reduce VOC emission volumes: Reduce FY2010 VOC emissions by 30% from the FY2000 level (Japan) Bases set individual FY2012 VOC emission reduction targets (Global)	2.(Japan) VOC emissions: 75 tons (FY2010). 85.6% reduction (improvement) from base year (FY2000). (Global) Some bases have set their targets	○ △
	3.Reduce the Class I Designated Chemical Substances of PRTR Law: Bases set individual FY2012 emission reduction targets for Class I Designated Chemical Substances of the PRTR Law (Japan and Global)	3.(Japan and Global) Set targets but could not achieve them (substitutes could not be found)	×
Green purchasing	1.Promote green purchasing for office supplies	1.Headquarters and bases used green purchasing for office supplies	○
	2.Promote green purchasing for company fleet vehicles	2.Purchased and leased eco-friendly vehicles	○
Logistics	Promote environmentally conscious logistics	Improved logistics efficiency and reduced packaging waste	○
Greening	Promote greening campaigns	Bases carried out tree planting activities	○
Biological diversity	Advance biodiversity awareness through "learning," "notifying" and "acting" steps (Japan)	Added biodiversity protection as a parameter for in-house product assessments and held a briefing for engineers. Printed in-house newsletter and other publications on Forest Thinning Support Paper. Donated to a project to regenerate forest destroyed as a result of the Great East Japan Earthquake and tsunami.	○
Social contribution activities	Promote activities that contribute to the social well-being of local communities	Bases conducted cleanup activities around their areas	○

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