

Sixth Aisin Consolidated Environmental Action Plan

Environmental axis	Evolution	No.	Measures	Implementation items, goals												
Building of a low-carbon society	Reduction of CO2 emissions to zero over the entire life cycle of the product, from manufacture and use to disposal	1	Promotion and expansion of development of products with new functions for substantial reduction of CO2 emissions	<ul style="list-style-type: none">● Development of auto parts for clean-energy vehicles (PHV and FC)● Development of high-performance power trains and technologies to increase fuel efficiency by making car bodies lighter● Development of next-generation energy systems (use of fuel cells and biofuels)● Development of environmentally friendly products (buildings, household goods and others) that reflect the characteristics of each business field, and acceleration of development of such products												
		2	Increased transparency of factors that become environmental load	<ul style="list-style-type: none">● Application of LCA (life cycle assessment), which evaluates the environmental performance of products at all stages, from manufacturing and use to disposal, to all products, and Group-wide promotion of LCA												
		3	Reduction of CO2 emissions from production (Overseas) Establishment of a CO2 reduction system similar to the one currently in place for domestic operations (Domestic) Maintenance and continuation of the current high-level CO2 reduction system	<ul style="list-style-type: none">● Promotion of CO2 reduction through daily improvement activities and introduction of energy-saving technologies, and all-out efforts to reduce energy loss through the utilization of waste heat and prevention of leakage of such heat● Application of domestic energy-saving measures and technologies to global operations● Reduction of CO2 emissions through the shared use of an energy management method● Reduction of CO2 emissions through a cut in defective products, which results in materials being used <table><tr><th>Reduction coverage</th><th>Scope of business operations covered by reduction efforts</th><th>Item</th><th>Base year</th><th>Goal</th></tr><tr><td>CO2 emissions from production</td><td>Global operations (Consolidated CO2 emissions from domestic and overseas production)</td><td>CO2 emissions per sales unit</td><td>FY2009</td><td>20% cut</td></tr></table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	Goal	CO2 emissions from production	Global operations (Consolidated CO2 emissions from domestic and overseas production)	CO2 emissions per sales unit	FY2009	20% cut		
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4	Establishment of "an Aisin clean-energy factory" and its operation	<ul style="list-style-type: none">● Introduction of innovative energy-saving technologies and use of renewable energy sources at model factories● Formulation of a roadmap for applying a clean-energy system to overseas factories● Active use of renewable energy sources and energy-saving technologies at existing factories														
5	Enhancement of transportation efficiency in distribution activities (Overseas) Improvement of a CO2 reduction system in line with expanding overseas operations (Domestic) Continuation of improvement activities through the shared use of specific CO2 reduction methods (improvement know-how)	<ul style="list-style-type: none">● Joint transportation, improvement of load rate and expanded use of transportation means with less environmental impact● Extraction of cases in which greenhouse gas emissions can be reduced in inter-region distribution activities (from Japan to overseas areas) and formulation of a roadmap for implementing reduction measures under such cases● Grasping of situation regarding distribution-related CO2 emissions in each country <table><tr><th>Reduction coverage</th><th>Scope of business operations covered by reduction efforts</th><th>Item</th><th>Base year</th><th>Goal</th></tr><tr><td rowspan="2">CO2 emissions</td><td>Domestic consolidated subsidiaries</td><td>CO2 emissions per sales unit</td><td>FY2009</td><td>11% cut</td></tr><tr><td>Overseas companies</td><td colspan="3">Grasping of results</td></tr></table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	Goal	CO2 emissions	Domestic consolidated subsidiaries	CO2 emissions per sales unit	FY2009	11% cut	Overseas companies	Grasping of results		
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Building of a recycling-oriented society	Zero environmental load	6	Effective use of metallic resources during the development stage and all-out efforts to promote recycling	<ul style="list-style-type: none">● Reduction of use of metallic resources and promotion of design aimed at improving the rate of reuse● Grasping of information regarding constraints on procurement of metallic resources and risks of depletion of such resources, and promotion of response action based on know-how accumulated under the previous implementation framework														
		7	Promotion of recycling of resources in production and distribution, and consequent reduction of the use of resources (Production) Promotion of intra-Group recycling of materials (Distribution) Reduction of packaging materials (Overall) Shared use of recycling methods and all-out intra-Group efforts to promote such methods	<ul style="list-style-type: none">● Development of recycling technologies to be applied to all Aisin Group companies and promotion of such technologies<ul style="list-style-type: none">・ Transformation of used resources into valuable resources through mutual consignment between Group companies・ Reduction of use of packaging materials● Application of waste-reducing methods and technologies used domestically to global operations <table><tr><th>Reduction coverage</th><th>Scope of business operations covered by reduction efforts</th><th>Item</th><th>Base year</th><th>Goal</th></tr><tr><td rowspan="2">Waste materials</td><td>Domestic consolidated subsidiaries</td><td>Discharge per sales unit</td><td>FY2009</td><td>28% cut</td></tr><tr><td>Overseas companies</td><td>Management of intensity figures by each company</td><td>FY2015</td><td>5% cut</td></tr></table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	Goal	Waste materials	Domestic consolidated subsidiaries	Discharge per sales unit	FY2009	28% cut	Overseas companies	Management of intensity figures by each company	FY2015	5% cut
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8	Effective use of water resources and all-out efforts to promote recycling of water resources	<ul style="list-style-type: none">● Stabilization of region-to-region water supply, setting of the standards used to evaluate the safety of water discharge and implementation of such evaluation● Setting and observance of goals used to reduce water consumption in response to each region's situation● Establishment of a reasonable system to grasp water consumption● Development and introduction of technologies to reduce consumption of water resources and recycling (water-saving and water-recycling technologies) <table><tr><th>Reduction coverage</th><th>Scope of business operations covered by reduction efforts</th><th>Item</th><th>Base year</th><th>Goal</th></tr><tr><td>Water</td><td>Areas where there are many constraints</td><td colspan="3">Grasping information on region-by-region safety of water resources by FY2017 and setting numerical targets for FY2020 concerning such safety</td></tr></table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	Goal	Water	Areas where there are many constraints	Grasping information on region-by-region safety of water resources by FY2017 and setting numerical targets for FY2020 concerning such safety								
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Building of a symbiosis society	Harmony with nature	9	Advanced action ahead of the official enforcement of regulations of harmful chemical substances contained in products	<ul style="list-style-type: none">● Effective curbing of chemical substances that become environmental load ahead of the official enforcement of regulations of such substances to ensure comparative advantage of Aisin products● Sharing of information on regulations enforced in each country concerning chemical substances and establishment of a global system to respond to such regulations● Active response action against environmental regulations imposed on exports from foreign countries, with the aim of expanding shipments to newly emerging countries														
		10	All-out efforts to prevent abnormal environmental situations	<ul style="list-style-type: none">● Establishment of a global "horizontal" system to obtain information on abnormal environmental situations● Activities to enhance awareness of environmental issues through holding the "KYT" environmental training(*1) globally● Formulation of AGES (*2) and its global application to enhance prevention of abnormal environmental situations														
		11	Reduction from production of chemical substances that become environmental load (Overseas) Establishment of a reduction system similar to one that is currently in place for domestic operations (Domestic) Maintenance and continuation of the current high-level reduction system	<ul style="list-style-type: none">● Applying know-how used in Japan to reduce environmental impact to overseas business bases for its diffusion in overseas operations● Reduction of the use of harmful chemical substances prior to moves by authorities to regulate such substances and possible effects on the surrounding environment● Continued development of VOC-reducing technologies (establishment of a VOC-free production system, reduction of VOC use and reduction of VOC discharge) <table><tr><th>Reduction coverage</th><th>Scope of business operations covered by reduction efforts</th><th>Item</th><th>Base year</th><th>Goal</th></tr><tr><td rowspan="3">VOC</td><td>Domestic consolidated subsidiaries</td><td>Discharge per sales unit</td><td>FY2009</td><td>19% cut</td></tr><tr><td>Overseas companies</td><td colspan="3">Grasping of results</td></tr></table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	Goal	VOC	Domestic consolidated subsidiaries	Discharge per sales unit	FY2009	19% cut	Overseas companies	Grasping of results		
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	12	Implementation of regional programs aimed at preserving biodiversity	<ul style="list-style-type: none">● Devising and publication of Aisin Group biodiversity guidelines● Continuation of biodiversity activities by the Aisin Group and expansion of areas of such activities● Regional efforts to protect and breed endangered species● Protection of ecological systems through "Aisin no Mori" forest-making and tree-planting at Aisin factories, and promotion of regional interchange															

*1 Environmental KYT: training aimed at enhancing detection and prevention of abnormal environmental situations

*2 AGES: Aisin Global Environmental Standards

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Fundamental activities that cover all themes	13	Reinforcement of environmental compliance through the establishment of a system to centralize the collection of relevant information	<ul style="list-style-type: none"> ● Establishment of a system to share information on overseas infrastructure and relevant law revisions ● Establishment of a system to centralize the collection of compliance information ● Establishment and operation of a system to evaluate compliance observance in each region
	14	Establishment and operation of a global consolidated EMS evaluation system	<ul style="list-style-type: none"> ● Focused environmental assessment activities by regional environmental committees and vitalization of such activities ● Establishment of standard environmental evaluation systems in each region • Promotion of standardization in environmental management • Continued promotion of activities aimed at enhancing evaluation systems through environmental assessment • Establishment of a global mutual assessment system
	15	Reinforcement of environmental management regarding supply chains and promotion of environmental activities in collaboration with suppliers	<ul style="list-style-type: none"> ● Revision of Aisin Group green procurement guidelines ● Expansion of the scope of fields covered by such guidelines ● Continued support of suppliers to help them implement environmental measures through environmental inspections and sharing of relevant information
	16	Reinforcement of environmental education to develop globally competitive human resources	<ul style="list-style-type: none"> ● Production of teaching materials used by all Aisin Group companies in environmental-related activities and environmental education using human development programs ● Development of globally competitive human resources with expertise in each environmental field
	17	Promotion of social contribution activities in the field of the environment in cooperation with local communities	<ul style="list-style-type: none"> ● Shared use and promotion of regionally implemented social contribution measures in establishing a global management system, and dissemination of regional social contribution efforts to wider areas ● Efforts to enhance understanding by local young people of Aisin's social contribution activities through entry-level education offered at factories
	18	Enhancement of communication with various stakeholders in the field of environment	<ul style="list-style-type: none"> ● Further information disclosure regarding the environment ● Continued publication of Aisin Group reports and brochures ● Setting of communication guidelines by the Aisin Group regarding the environment ● Continued exchanges with local communities through events such as regional informal meetings ● Promotion and public release of uniform environmental activities at all Aisin business bases both in Japan and abroad on various occasions including World Environment Day
	19	Worldwide management of office environment	<ul style="list-style-type: none"> ● Promotion of activities to enhance awareness of the environment ● Declaration by the Aisin Group to promote environmental activities in the primary business area and efforts to disseminate the Group's environmental contribution to the general public ● Application of energy-saving technologies introduced at domestic business offices to global offices