

Environmental data

Results of activities for the Sixth Environmental Action Plan in fiscal year 2020

Environmental axis	Evolutions	Measures	FY2020 results																															
Establishment of a low-carbon society	Reduction of CO <sub>2</sub> emissions to zero over the entire life cycle of products, from manufacture and use to disposal	1 Promotion and expansion of development of products with new functions for substantial reduction of CO <sub>2</sub> emissions	<ul style="list-style-type: none"> <li>Began mass production of the eAxe electric drive unit (150kW) as part of initiatives to popularize EVs that emit no CO<sub>2</sub> at all while driving. The unit is used in Toyota's CH-R and IZOA EVs</li> <li>Began mass production of the next generation of cooperative regenerative brake systems, which enable reclamation of more energy (and are therefore more energy efficient) than conventional 4-wheel drive control as the front and rear wheels are controlled independently</li> </ul>																															
		2 Increased transparency of factors that cause environmental load	<ul style="list-style-type: none"> <li>Completed draft of scenarios for AISIN Group in FY2031 with the aim of achieving the reduction targets set in our LCAs*1. Integration of scenarios for FY2031 at 4 design companies</li> </ul>																															
		3 Reduction of CO <sub>2</sub> emissions in our production work <b>Overseas:</b> Establishment of a CO <sub>2</sub> reduction system similar to the one currently in place for operations in Japan <b>Japan:</b> Maintenance and continuation of the high level of our current CO <sub>2</sub> reduction system	<ul style="list-style-type: none"> <li>Shared examples of energy conservation for the purpose of reducing CO<sub>2</sub> with local staff at personnel liaison meetings in China, Thailand, Europe and North America. Promoted energy conservation activities at each site</li> </ul> <table border="1"> <thead> <tr> <th rowspan="2">Reduction coverage</th> <th rowspan="2">Scope of business operations covered by reduction efforts</th> <th rowspan="2">Item</th> <th rowspan="2">Base year</th> <th colspan="2">FY2021</th> <th colspan="2">FY2020</th> <th rowspan="2">Evaluation</th> </tr> <tr> <th>Goal</th> <th>Target</th> <th>Result</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>CO<sub>2</sub> emissions from production</td> <td>Global operations (consolidated CO<sub>2</sub> emissions from production in Japan and overseas)</td> <td>Emissions per sales</td> <td>FY2010</td> <td>20%</td> <td>18.2% reduction</td> <td>20.2% reduction</td> <td></td> <td>○</td> </tr> </tbody> </table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	FY2021		FY2020		Evaluation	Goal	Target	Result	Result	CO <sub>2</sub> emissions from production	Global operations (consolidated CO <sub>2</sub> emissions from production in Japan and overseas)	Emissions per sales	FY2010	20%	18.2% reduction	20.2% reduction		○									
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4 Establishment of an AISIN clean-energy factory and commencement of operation	<ul style="list-style-type: none"> <li>Completed scenarios for reduction of CO<sub>2</sub> at 12 core manufacturing companies in AISIN Group by FY2031</li> <li>Ascertained the current status of initiatives for renewable energy worldwide with the aim of optimal procurement for renewable energy within FY2021</li> </ul>																																	
5 Improvement of transportation efficiency in distribution activities <b>Overseas:</b> Improvement of CO <sub>2</sub> reduction system in line with expansion of overseas operations <b>Japan:</b> Continuation of improvement activities through the shared use of specific CO <sub>2</sub> reduction methods (know-how)	<ul style="list-style-type: none"> <li>Expanded joint delivery for AISIN Group as a whole in the Kanto region and introduced full trailers</li> <li>Introduced 4 BDF*2 trucks</li> </ul> <table border="1"> <thead> <tr> <th rowspan="2">Reduction coverage</th> <th rowspan="2">Scope of business operations covered by reduction efforts</th> <th rowspan="2">Item</th> <th rowspan="2">Base year</th> <th colspan="2">FY2021</th> <th colspan="2">FY2020</th> <th rowspan="2">Evaluation</th> </tr> <tr> <th>Goal</th> <th>Target</th> <th>Result</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>CO<sub>2</sub> emissions from distribution</td> <td>Consolidated subsidiaries in Japan</td> <td>Emissions per sales</td> <td>FY2010</td> <td>11%</td> <td>10.0% reduction</td> <td>15.2% reduction</td> <td></td> <td>○</td> </tr> <tr> <td></td> <td>Overseas companies</td> <td colspan="6">Thorough understanding of results</td> <td></td> </tr> </tbody> </table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	FY2021		FY2020		Evaluation	Goal	Target	Result	Result	CO <sub>2</sub> emissions from distribution	Consolidated subsidiaries in Japan	Emissions per sales	FY2010	11%	10.0% reduction	15.2% reduction		○		Overseas companies	Thorough understanding of results								
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Establishment 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"> <li>Completed activities to ascertain the current state of metallic resources that should be managed by AISIN Group, and confirmed that there is no problem at present</li> </ul>																															
		7 Promotion of recycling of resources in production and distribution, and consequent reduction of the use of resources <b>Production:</b> Promotion of reuse of materials within the group <b>Distribution:</b> Reduction of packaging materials <b>Overall:</b> Shared use of recycling methods and all-out intra-group efforts to promote such methods	<ul style="list-style-type: none"> <li>Created and shared 12 representative examples of waste reduction and recovery of valuable matter from for AISIN Group</li> <li>Completed 7 examples of countermeasures against sources of issues overseas</li> </ul> <table border="1"> <thead> <tr> <th rowspan="2">Reduction coverage</th> <th rowspan="2">Scope of business operations covered by reduction efforts</th> <th rowspan="2">Item</th> <th rowspan="2">Base year</th> <th colspan="2">FY2021</th> <th colspan="2">FY2020</th> <th rowspan="2">Evaluation</th> </tr> <tr> <th>Goal</th> <th>Target</th> <th>Result</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Waste materials</td> <td>Consolidated subsidiaries in Japan</td> <td>Emissions per sales</td> <td>FY2010</td> <td>28%</td> <td>25.5% reduction</td> <td>29.5% reduction</td> <td></td> <td>○</td> </tr> <tr> <td></td> <td>Overseas companies</td> <td>Thorough understanding of results</td> <td>FY2016</td> <td>5%</td> <td>4% reduction</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	FY2021		FY2020		Evaluation	Goal	Target	Result	Result	Waste materials	Consolidated subsidiaries in Japan	Emissions per sales	FY2010	28%	25.5% reduction	29.5% reduction		○		Overseas companies	Thorough understanding of results	FY2016	5%	4% reduction	-	-	
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8 Effective use of water resources and full-scale efforts to promote recycling of water resources	<ul style="list-style-type: none"> <li>Set water reduction targets at high-risk sites and began deliberation of measures</li> </ul> <table border="1"> <thead> <tr> <th>Reduction coverage</th> <th>Scope of business operations covered by reduction efforts</th> <th>Item</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td>Areas where there are many constraints</td> <td>Assessed drought risk in FY2018 and identified high-risk sites with an emphasis on the impact on our sites Completed numerical targets in FY2020 and began assessing current status</td> </tr> </tbody> </table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Water	Areas where there are many constraints	Assessed drought risk in FY2018 and identified high-risk sites with an emphasis on the impact on our sites Completed numerical targets in FY2020 and began assessing current status																											
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\*1 Life Cycle Assessment, an assessment of reductions in CO<sub>2</sub> emissions across product lifecycles as part of the product development process

\*2 Biodiesel Fuel, a type of fuel made by collecting and refining food oils

\*3 AISIN Global Environmental Standard

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Establishment of a society in which people coexist with nature	Harmony with nature	9 Advance action ahead of the official enforcement of regulations of harmful chemical substances contained in products	<ul style="list-style-type: none"> <li>Created a road map for the transition between now and FY2025 and shared it with group companies</li> </ul>																															
		10 All-out efforts to prevent abnormal environmental situations	<ul style="list-style-type: none"> <li>Completed written deliberation of AGES*3 (exhaust)</li> <li>Created AGES proposal (soil and groundwater)</li> </ul>																															
		11 Reduction from production of chemical substances that cause environmental load <b>Overseas:</b> Establishment of a reduction system similar to the one that is currently in place for operations in Japan <b>Japan:</b> Maintenance and continuation of the high level of our current emission reduction system	<ul style="list-style-type: none"> <li>Began building a chemical substances management system with a view to the merger between Aisin Seiki and Aisin AW</li> <li>Introduced to eliminate VOCs in the Chugoku district in response to regulations</li> </ul> <table border="1"> <thead> <tr> <th rowspan="2">Reduction coverage</th> <th rowspan="2">Scope of business operations covered by reduction efforts</th> <th rowspan="2">Item</th> <th rowspan="2">Base year</th> <th colspan="2">FY2021</th> <th colspan="2">FY2020</th> <th rowspan="2">Evaluation</th> </tr> <tr> <th>Goal</th> <th>Target</th> <th>Result</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>VOC</td> <td>Consolidated subsidiaries in Japan</td> <td>Emissions per sales</td> <td>FY2010</td> <td>19%</td> <td>17.3% reduction</td> <td>47.3% reduction</td> <td></td> <td>○</td> </tr> <tr> <td></td> <td>Overseas companies</td> <td colspan="6">Thorough understanding of results</td> <td></td> </tr> </tbody> </table>	Reduction coverage	Scope of business operations covered by reduction efforts	Item	Base year	FY2021		FY2020		Evaluation	Goal	Target	Result	Result	VOC	Consolidated subsidiaries in Japan	Emissions per sales	FY2010	19%	17.3% reduction	47.3% reduction		○		Overseas companies	Thorough understanding of results						
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12 Implementation of regional programs aimed at preserving biodiversity	<ul style="list-style-type: none"> <li>Conducted nature protection activities in five regions of Japan that are home to AISIN Group sites (Aichi, Hokuriku, Hokkaido, Tohoku and Kyushu)</li> </ul>																																	
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"> <li>Distributed information at personnel liaison meetings held in various regions with regard to laws and regulations that will have an impact and/or need to be addressed</li> <li>Continued to promote treatment of high-density PCB waste jointly within group</li> <li>Completed treatment according to our plan in FY2020</li> </ul>																															
		14 Establishment and operation of a globally consolidated EMS evaluation system	<ul style="list-style-type: none"> <li>Identified weaknesses and achievable improvements in each of our sites and conducted more stringent consolidated environmental assessments than those set in the Fifth Environmental Action Plan at both our domestic and overseas sites based on our findings. The targets were achieved by 47 companies in FY2020</li> </ul>																															
		15 Reinforcement of environmental management regarding supply chains and promotion of environmental activities in collaboration with suppliers	<ul style="list-style-type: none"> <li>Conducted environmental inspections at 38 suppliers of AISIN Group and carried out follow-up activities after the inspections</li> </ul>																															
		16 Reinforcement of environmental education to develop globally competitive employees	<ul style="list-style-type: none"> <li>Reiterated our vision for FY2021 and the principles of our training framework, and carried out training with the aim of building training frameworks at our affiliated companies in Japan</li> </ul>																															
		17 Promotion of social contribution activities in the environmental field in cooperation with local communities	<ul style="list-style-type: none"> <li>Aisin AW Industries has been carrying out conservation activities in Nakaikemi Marsh since FY2015. From FY2020, the company has worked together with local junior high school students with a keen interest in the rice fields and their biodiversity</li> <li>Aisin Keikinzoku's Ariso Plant caught and released native fish that live in nearby rivers as an initiative to breed and protect these fish</li> <li>Other group companies also continued to devise and engage in environmental activities with local communities</li> </ul>																															
		18 Enhancement of communication with various stakeholders in the environmental field	<ul style="list-style-type: none"> <li>Held events such as AISIN Group Consolidated Environmental Symposium for AISIN Group employees to promote awareness and understanding of our environmental activities</li> <li>Promoted AISIN Group's environmental activities by taking ecological action and conducting biological surveys for local elementary school students</li> </ul>																															
19 Worldwide management of office environment	<ul style="list-style-type: none"> <li>Verified that environmental activities tailored to various functions are being conducted in each workplace each year</li> </ul>																																	