

The Sixth  
Daihatsu Environmental  
Action Plan  
FY2016 ~ FY2020



# The 6th Daihatsu Environmental Action Plan

## Basic Policy

Aiming to make sustainable society, we, Daihatsu Group, strive positively to reduce environmental load and to improve environmental subject at all stage of vehicle manufacturing business, from planning to disposing

In addition, we share the activity with our global stakeholder, and work cooperatively on social contribution.

※This activity is strived under "Toyota environmental charter" shared as a member of Toyota group.

field	Action Items	※1	Specific Actions and Target																					
Development and Design	Reduction of CO2 from vehicle during driving/ improvement of fuel efficiency	LCS	Achieve the fuel efficiency standard in each country and/or region ①Japan • Continuous progress to improve fuel efficiency toward 2020 Gas Mileage standards • Develop top class Fuel efficiency performance for Kei Car ②Oversea • Steadily introduce Daihatsu fuel efficiency technology																					
	CO2 reduction from resin parts by using reproducible resources and recycling materials	LCS	Contribute to CO2 reduction by resin recycling and parts development technology • Technical development for realization of 100% bio-plastic materials • Technical development for practical usage of ASR※2 recycling materials																					
	Continuous progress of technical development for less usage of rare resources	RCS	• Development of liquid fuel cell without using noble metal • Drastic reduction of noble metal usage amount for exhaust gas catalyst																					
	Diffuse "Eco-Design Car" ; car designed as easily recycling resources	RCS	Contribute to resources recycling with easy dismantling design expanding and modeling • Standedize of eco-design index (standards, contents, etc.)																					
	Promote development of clean energy vehicle	LCS	Development of fuel cell which directly generates electricity from non-carbon liquid fuel, and not exhaust CO2																					
	Exhaust gas reduction to contribute city atmosphere environment improvement in each country and/or region	NHS	Introduce low emission gas vehicle steadily to contribute to improve city environment in each country and/or region																					
	Promote environmental management in products development (Eco-VAS※3)	EMN	Steadily imply environmental target management by vehicle environmental assessment system (Eco-VAS) at vehicle development stage																					
Production and Logistic (production)	Reduction of environmental load with efficient production and logistic	LCS	<ul style="list-style-type: none"> <li>Reduction of CO2 emissions amount</li> </ul> <table border="1"> <thead> <tr> <th>Region</th> <th>area</th> <th>Standard year</th> <th colspan="2">Target (FY2020)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Japan</td> <td rowspan="2">Daihatsu production basis※4</td> <td rowspan="2">2001 actual</td> <td>per unit production</td> <td>Δ 34%</td> </tr> <tr> <td>total emissions</td> <td>Δ 19%</td> </tr> <tr> <td rowspan="2">Oversea</td> <td>Global※5</td> <td>2001 actual</td> <td>per unit production</td> <td>Δ 38%</td> </tr> <tr> <td>Each company</td> <td colspan="3">Set up target for based on each condition</td> </tr> </tbody> </table>	Region	area	Standard year	Target (FY2020)		Japan	Daihatsu production basis※4	2001 actual	per unit production	Δ 34%	total emissions	Δ 19%	Oversea	Global※5	2001 actual	per unit production	Δ 38%	Each company	Set up target for based on each condition		
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RCS	<ul style="list-style-type: none"> <li>Manage water consumption</li> </ul> <table border="1"> <thead> <tr> <th>Region</th> <th>Area</th> <th>Target (FY2020)</th> </tr> </thead> <tbody> <tr> <td>Japan</td> <td>Daihatsu production base</td> <td>Manage usage amount</td> </tr> <tr> <td>Oversea</td> <td>Each company</td> <td>Set up target for based on each condition</td> </tr> </tbody> </table>	Region	Area	Target (FY2020)	Japan	Daihatsu production base	Manage usage amount	Oversea	Each company	Set up target for based on each condition														
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Production and Logistic (logistic)	Reduction of environmental load with efficient production and logistic	CO2 emissions from logistics	LCS	Reduction of logistic CO2 exhaust amount ・Progress of CO2 reduction with improvement of transfer efficiency (thorough reduction of total transfer distance, improvement of loading and progress of modal shift) <table border="1"> <thead> <tr> <th>Region</th> <th>Area</th> <th>Standard year</th> <th colspan="2">Target (FY2020)</th> </tr> </thead> <tbody> <tr> <td>Japan</td> <td>Daihatsu production base</td> <td>2012 actual</td> <td>per unit transportation</td> <td>Δ 11%</td> </tr> <tr> <td>Oversea</td> <td>Each company</td> <td colspan="3">Set up target for based on each condition</td> </tr> </tbody> </table>	Region	Area	Standard year	Target (FY2020)		Japan	Daihatsu production base	2012 actual	per unit transportation	Δ 11%	Oversea	Each company	Set up target for based on each condition		
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Usage amount of packaging material	RCS	Reduction of usage amount of packaging material ・Progress improvement by applying returnable packaging material and lightweighting packaging material <table border="1"> <thead> <tr> <th>Region</th> <th>Area</th> <th>Standard year</th> <th colspan="2">Target (FY2020)</th> </tr> </thead> <tbody> <tr> <td>Japan</td> <td>Daihatsu production base</td> <td>2012 actual</td> <td>per unit volume</td> <td>Δ 5%</td> </tr> <tr> <td>Oversea</td> <td>Each company</td> <td colspan="3">Set up target for based on each condition</td> </tr> </tbody> </table>	Region	Area	Standard year	Target (FY2020)		Japan	Daihatsu production base	2012 actual	per unit volume	Δ 5%	Oversea	Each company	Set up target for based on each condition				
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Cooperate with society	International contribution by appropriate ELV process and recycling technology cultivated in Japan		RCS	Prepare to correspond to recycle law in each country without delay by collecting various information about recycling															
	Proceed nature harmonized activities on our business with connections at habitation area and the region		NHS	Proceed to expand green belt for biological habitation area, cooperate with local government and neighborhoods															
	Promote Eco-Driving on a global scale		LCS	Promote Eco-Driving in All Daihatsu Group companies, in each country and both outside and inside companies.															
	Promotion of recycle system of ELV resources and contribution to energy infrastructure		RCS	Contribute to recycling and energy subjects by "recycling technology" ・Continuation of resin recycling and development of new technology of resin in domestic															
	Promotion of new activity for resource recovery		RCS	・Promote the choice of materials which is easy to recycle ・Build up a scheme to recycle used resin outer shell parts.															
Sales	Reduction of environmental load with efficient sales activities		LCS	①Reduction of CO2 emissions amount ・Proceed energy saving activities at show room, office and service shop ・Reduction of CO2 emissions amount in sales companies <table border="1"> <thead> <tr> <th>Region</th> <th>Area</th> <th>Standard year</th> <th colspan="2">Target (FY2020)</th> </tr> </thead> <tbody> <tr> <td>Japan</td> <td>Sales companies</td> <td>2015 actual</td> <td>total amount</td> <td>Δ 5%</td> </tr> </tbody> </table>	Region	Area	Standard year	Target (FY2020)		Japan	Sales companies	2015 actual	total amount	Δ 5%					
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Contribute to society	Continuous contribute environment educational support to local society including children by each regional business unit.		NHS	Contribution by environment educational support and festival events proceeded by each business unit ①Japan ・Educational support to local society including children by utilizing woods and biotope in business units such as forests in factory ②Overseas ・Set action target to each local situation, and progress															
	Contribution to nature and biodiversity conservation activities settled in each area		NHS	Proceed environmental and biodiversity conservation in cooperate with each region in response to each local various needs by sharing biodiversity guideline among all toyota group ・Sharing all Toyota activities Solicit whole strengthen activity through progress and commonize contents by media such as web etc.															
			NHS	Officially support the project contribute to solve subjects in environmental field which is important area in social contribution activity.															
	Investgate the practice use for new resources creation		LCS	Development of basic technology to synthesis liquid fuel under normal temperature and pressure from air, water, light energy of sun, etc.															
Develop technology to create energy for CO2 zero emissions		LCS	Development of energy recovery and electric generation technology using unused energy (exhaust heat in factory, small waterpower, biomaterial, etc.)																

field	Action Items	※1	Specific Actions and Target
Contribute to society	Promote forest resources recycling with using company forest conservation activity	LCS	Contribute to adapt to warming and climate change through urban greening business and technology that group holds <ul style="list-style-type: none"> <li>• Cope with heat island (spread and expansion of wall greening, high performance shading paint)</li> </ul>
		NHS	Construction of the action model utilizing wood in the company forest
Management	Promote reinforcement of connected environmental management among group companies	EMN	<ul style="list-style-type: none"> <li>• Reinforcement of activity to secure top level environmental performance (CO2, water, etc.) in each country and area by improving various environmental activity inside and outside the country</li> <li>• Thorough reinforcement of legal compliance and prevention of environmental risk in each country and area</li> <li>• Expand chemical substance management of production by watching laws trend in each country and area</li> </ul>
	Promote environmental activities cooperate with business partners (suppliers)	EMN	<ul style="list-style-type: none"> <li>• Request for legal compliance to suppliers</li> <li>• Request for improvement on management of environmental load materials included in parts, materials, submaterials, equipment, etc. delivered and improvement of voluntary environmental performance (CO2 discharge, water usage, etc)</li> </ul>
	Environmental load reduction cooperate with sales companies	EMN	<ul style="list-style-type: none"> <li>• Proceed and reinforce environmental action through the "Environmental Authorization System for Daihatsu Sales Company"</li> <li>• Proceed improvement of environmental performance by expanding environmental management</li> </ul>
	Further promote environmental education and enlightenment activities globally	EMN	<p>Enlightenment of the environmental conservation awareness in the company by continuous employee education and continuous information dispatch</p> <p>①Japan</p> <ul style="list-style-type: none"> <li>• Continuous education according to official skill rank</li> <li>• Development and enforcement of education program for each official rank for person who promoted and/or new ly employed</li> <li>• Continuous environmental enlightenment at Global Environmental Month</li> </ul> <p>②Overseas</p> <ul style="list-style-type: none"> <li>• Promote environmental education for employee</li> <li>• Promote education for environmental key persons</li> </ul>
	Active disclosure of environmental information and communication	EMN	<p>In each country and area</p> <ul style="list-style-type: none"> <li>• Further improvement of products environmental technology report</li> <li>• Continuous publication and further improvement on the report</li> <li>• Enhancement of environmental communication activity</li> </ul>

※1 Classification      LCS: low carbon society  
RCS: recycling society  
NHS: nature harmonized society  
EMN: environmental management

※2 Automobile Shredder Residue

※3 Eco-Vehicle Assessment system (environment evaluation system Toyota introduced)

※4 Daihatsu motor co. ltd. and Daihatsu kyushu co. ltd.

※5 Daihatsu motor co. ltd. and its domestic and overseas subsidiary.

※6 Daihatsu motor co. ltd. and its domestic production subsidiary.