

# The Fifth Toyota Auto Body Action Plan (FY 2011-1015)

## ◆FY2013 Efforts and Results

	Action items	Main Efforts and Results																			
Efforts to build a low-carbon society	Development and Design	①Promote development of next-generation vehicles that use electrical energy ②Develop and commercialize lightweight technology for improving vehicle fuel efficiency																			
	Production and Logistics	③Reduce greenhouse gas emissions volume and enhance energy-saving activities in production activities ④Pursue shipping efficiency in logistics activities and reduce CO <sub>2</sub> emissions volume																			
		<ul style="list-style-type: none"> <li>EV: The Super-Compact EV COMS went on sale in July of 2012 and it achieved cumulative sales of 3090 COMS.(End of March, 2014)</li> <li>HV: Voxy, Noah, Alphard, Vellfire, Estima and Prius were sold and in 2013, we sold 152,000 HV and have cumulative sales of 1,401,000 vehicles.(End of March, 2014)</li> <li>Set a lightweight target for each development vehicle, and we achieved our targets for technical developments through coordinating the listing of kaizen items with our benchmark activities and parts suppliers.</li> <li>Lightweight target achievement ratio: Voxy/Noah(100%) , IS (112%), Highlander (100%)</li> </ul> <table border="1"> <thead> <tr> <th>Area</th> <th>Item</th> <th>Base year</th> <th>Target (FY2013)</th> <th>FY2013 Performance</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Toyota Auto Body</td> <td>CO<sub>2</sub> emissions volume</td> <td>FY1990</td> <td>3% reduction</td> <td>9% increase</td> </tr> <tr> <td>CO<sub>2</sub> emissions volume per vehicle</td> <td>FY2001</td> <td>8% reduction</td> <td>11% reduction</td> </tr> <tr> <td>Global</td> <td>CO<sub>2</sub> emissions volume per vehicle</td> <td>FY2001</td> <td>8% reduction</td> <td>20% reduction</td> </tr> </tbody> </table>	Area	Item	Base year	Target (FY2013)	FY2013 Performance	Toyota Auto Body	CO <sub>2</sub> emissions volume	FY1990	3% reduction	9% increase	CO <sub>2</sub> emissions volume per vehicle	FY2001	8% reduction	11% reduction	Global	CO <sub>2</sub> emissions volume per vehicle	FY2001	8% reduction	20% reduction
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	<ul style="list-style-type: none"> <li>Implemented CO<sub>2</sub> reduction activities by optimizing transportation routes and load capacity efficiency in shipping</li> </ul> <table border="1"> <thead> <tr> <th>Item</th> <th>Base year</th> <th>Target (FY2013)</th> <th>FY2013 Performance</th> </tr> </thead> <tbody> <tr> <td>CO<sub>2</sub> emissions volume in logistics</td> <td>FY2001</td> <td>35% reduction</td> <td>39% reduction</td> </tr> </tbody> </table>	Item	Base year	Target (FY2013)	FY2013 Performance	CO <sub>2</sub> emissions volume in logistics	FY2001	35% reduction	39% reduction												
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Efforts toward building a recycle-oriented society	Development and Design	⑤Further introduce and promote recycle design that considers effective resource use																			
	Production and Logistics	⑥Effectively use resources and reduce emissions in production and logistics activities																			
	Coordinating With Society	⑦Promote new businesses to invest in building a recycle-oriented society																			
	<ul style="list-style-type: none"> <li>Set and achieved dismantlement target times for each development vehicle (Target dismantlement time: Reduction of 15% from the average dismantlement time of Toyota Motor Corporation in 2001)</li> <li>Implemented parts selection and considered application for use of market discarded resins</li> </ul> <p>&lt;Emissions&gt;</p> <ul style="list-style-type: none"> <li>Promoted effective use of resources and reduced emissions by taking emissions point countermeasures through improving yields of stamping steel material (Promoted reduction activities for resource loss, and reducing emissions of valuable materials and waste substances)</li> </ul> <table border="1"> <thead> <tr> <th>Item</th> <th>Base year</th> <th>Target (FY2013)</th> <th>FY2013 Performance</th> </tr> </thead> <tbody> <tr> <td>Waste substances</td> <td>Emissions volume per vehicle FY2008</td> <td>5% reduction</td> <td>6% reduction</td> </tr> </tbody> </table> <p>[Valuable materials: metal scrap (stamping waste materials, etc.) for fee-payable recycling Waste substances: money back recycling, incineration of waste, and landfill waste substances]</p> <p>&lt;Logistics&gt;</p> <ul style="list-style-type: none"> <li>Reduced packaging material use by continuing to use things such as packaging and shipping specification bubble wrap (aircap) materials.</li> </ul> <table border="1"> <thead> <tr> <th>Item</th> <th>Base year</th> <th>Target(FY2013)</th> <th>Fy2013 Performance</th> </tr> </thead> <tbody> <tr> <td>Volume of packaging and wrapping materials used</td> <td>FY2001</td> <td>43% reduction</td> <td>48% reduction</td> </tr> </tbody> </table>	Item	Base year	Target (FY2013)	FY2013 Performance	Waste substances	Emissions volume per vehicle FY2008	5% reduction	6% reduction	Item	Base year	Target(FY2013)	Fy2013 Performance	Volume of packaging and wrapping materials used	FY2001	43% reduction	48% reduction				
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Promoting environmental conservation and building a society that coexists with nature	Development and Design	⑧Soundly manage chemical substances in products																			
	Production	⑨Reduce SOCs in production activities																			
	Coordinating With Society	⑩Make efforts for biodiversity ⑪Promote social contribution activities to invest in building coexistence with nature																			
	<ul style="list-style-type: none"> <li>Implemented collection and confirmation of chemical substances included in vehicle newly designed parts while also grasping the direction of regulations in order to take firm action toward chemical substance regulations, including European REACH, of all countries</li> <li>Implemented auditing activities for 10 SOCs (Lead, mercury, cadmium, hexavalent chromium, asbestos, etc.) for products of mass-produced vehicles</li> <li>Switched all colors to waterborne paints on the No.1 Painting Line at our Inabe Plant. Improved <b>paint sticking</b> efficiency for paint spraying</li> </ul> <table border="1"> <thead> <tr> <th>Item</th> <th>Base year</th> <th>Target(FY2013)</th> <th>FY2013 Performance</th> </tr> </thead> <tbody> <tr> <td>Body paint VOCs</td> <td>Emissions volume per painted vehicle unit area FY1998</td> <td>68% reduction</td> <td>70% reduction</td> </tr> </tbody> </table>	Item	Base year	Target(FY2013)	FY2013 Performance	Body paint VOCs	Emissions volume per painted vehicle unit area FY1998	68% reduction	70% reduction												
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Environmental management	Management	⑫Promote and enhance consolidated environmental management ⑬Promote further coordinated environmental activities with suppliers ⑭Promote global CO <sub>2</sub> management ⑮Reduce life-cycle burden on the environment through active planning toward Toyota ECO-VAS ⑯Promote sustainable plant activities ⑰Promote and achieve environment education ⑱Achieve active disclosure of environmental information and communication activities																			
		<ul style="list-style-type: none"> <li>Enhanced cross-development activities and information sharing through periodic liaison meetings (1/M) with overseas operations</li> <li>Implemented on-site inspections by the Toyota Auto Body Group companies of water drainage canals and other activities for preventing environmental abnormalities in production processes</li> <li>Assured use of raw material sub-materials not included in Toyota's Prohibited Substances by thoroughly managing such chemical substances</li> <li>Implemented activities for demanding items for observing environmental conservation and also activities for understanding for construction companies</li> <li>Gave guidance for CO<sub>2</sub> reduction plans and an energy management system through on-site maintenance of overseas operations</li> <li>Implemented an on-site energy saving survey in September at Chung Shyang Shih Yeh Industry Co., Ltd.</li> <li>Implemented environmental assessment (ECO-VAS) with cooperation of Toyota Motor Corporation for vehicle model changes and new models</li> <li>Head Office/Fujimatsu Plant : Completed the "Kariya Fureai Park"</li> <li>Inabe Plant: Began establishing "Relaxation Area for Interacting With Nature"</li> <li>Yoshiwara Plant: Established a "Walking Road Around the Community" by coordinating with the Wakazono District Toyota-City</li> <li>Implemented environmental e-learning (June) and also stratified education</li> <li>Implemented environmental education (July, December) when receiving overseas trainees</li> <li>Issued our Environmental KY(Kiken Yochi) text and implemented education</li> <li>Issued CSR Report (Uploaded to our official homepage on June 18)</li> <li>Held an "Informal Community Gathering for Discussion" at the Fujimatsu Plant on December 13, November 9 at the Inabe Plant, and December 5 at the Yoshiwara Plant.</li> </ul>																			