Fourth Toyota Auto Body Environmental Action Plan (FY2006-FY2010)

Main Progress Status Items

		Action item	Implementation item	Action status
Energy and Global Warming	Development and Design	①Improve vehicle fuel efficiency	・Vehicle body weight reduction design contributing to improved fuel efficiency	・Achieved lightweight targets by using technology for thinning of high-tensile strength steel, aluminum materials, and in resin parts ・Improved aerodynamic performance by cabin floor flattening design
	Production and Logistics	②Promote CO_2 reduction measures	・Revolutionize production technology and improve planned productivity ・Introduce energy-saving technological developments	・Introduced the newest technology, such as servo presses, and also reusing emitted air conditioning heat in upgrading old equipment、 ・Established a Toyota Auto Body Group energy-saving activity system and introduced case examples of energy savings

Category		Item		FY2010 Target	Results	Evaluation
Production	Global	Emissions volume per sales		8% reduction compared to FY2003	24% reduction	○
	Toyota Auto Body	Emissions volume per sales		10% reduction compared to FY2003	25% reduction	○
		Emissions volume	Production bases	Under 5% increase compared to FY1990	1% increase	○
			Non-production bases	5% reduction compared to FY2005	26% reduction	○
Logistics	Toyota Auto Body	Emissions volume		10% reduction compared to FY2003	29% reduction	○

		Action item	Implementation item	Action status
Resource Recycling	Development and Design	③Vehicle Recycle Design	・Introduce vehicle development for easy dismantling and recycling	・Introduced and researched dismantling of air bags, hybrid batteries, etc. (Achieved target dismantling time) ・Expanded use of recyclable superior resin materials
	Production and Logistics	④Promote effective resource use	・Countermeasures for sources of valuable materials emissions and minimization of packing	・Reduced resin waste and press scrap by improvements yields ・Changed material quality and shape of supply-part packing materials (Introduced and researched materials such as wood → cardboard → vinyl)

Category	Item	FY2010 Target	Results	Evaluation
Production	Emissions volume per sales	3% reduction compared to FY2003	27% reduction	○
Logistics	Packing material volume	5% reduction compared to FY2003	46% reduction	○

		Action item	Implementation item	Action status
	Production and Logistics	⑤Reduce water volume	・Promote continuous reductions in water volume used	・Appropriate shower volume in painting processes, and also managed and maintained daily water-savings activities

Category	Item	FY2010 Target	Results	Evaluation
Production	Volume used per vehicle	20% reduction compared to FY1995	25% reduction	○

		Action item	Implementation item	Action status
Substances of Concern (SOCs)	Development and Design	⑥Manage and reduce SOCs	・Global elimination of the four SOCs (lead, mercury, cadmium, and hexavalent chromium) ・Reduce VOCs in new vehicle model interiors	・Completed for most of FY2007 products, and continued action for European REACH regulations ・Expanding achievements of globally self-initiated standards for post-FY2007 new vehicle models
	Production and Logistics	⑦Reduce VOC volume	・Reduce volume of cleaning thinner used in painting processes and expanded use of waterborne paints	・Recycling of cleaning solvent, and reduced volume use through reexamining cleaning frequency, and we promoted improved recovery rates of spent thinner ・Currently promoting sequential switching to waterborne paints at each plant
		⑧Reduce volume of substances subject to PRTR		

Category	Item	FY2010 Target	Results	Evaluation
Body paint VOC	Emissions per painted area	60% reduction compared to FY1998	65% reduction	○
Substances subject to PRTR	Emissions volume	60% reduction compared to FY1998	65% reduction	○