The Fifth Toyota Auto Body Action Plan (FY 2011-1015) FY2015 Efforts and Results

•		Action items	Main Efforts and Results						
	Development and Design	①Promote development of next-generation vehicles that use electrical energy	 EV: The Super-Compact EV COMS went on sale in July of 2012 and it achieved cumulative sales of 4,700 COMS. (End of March, 2016) HV: Alphard, Vellfire, Voxy, Noah, Esquire, Estima and Prius were sold and in 2015, we sold 112,000 HV and have cumulative sales of 1,637,000 vehicles. (End of March, 2016) 						
to build a low-carbon society		 Develop and commercialize lightweight technology for improving vehicle fuel efficiency Program: Activities for developing weight reduction technologies, applying them to produce and reducing weights in development projects Result: Achieved the development project weight reduction target. 							
	Production and Logistics	③Reduce greenhouse gas emissions volume and enhance energy-saving activities in production	<main co2="" measures)<="" p="" reduction=""> •Promoted thoroughly shutting down equipment during hours of non-operation •Saved energy through renovations of painting booths</main>						
		activities	Area Item Base year Target (FY2015) FY2015 Performance Toyota CO2 emissions volume FY1990 5% reduction 3% increase						
		-	Body CO2 emissions volume per vehicle FY2001 10% reduction 17% reduction Global CO2 emissions volume per vehicle FY2001 10% reduction 22% reduction						
Efforts		④Pursue shipping efficiency in logistics activities and reduce CO ₂ emissions volume	Implemented CO2 reduction activities by optimizing transportation routes and load capacity efficiency in shipping Item Base year Target (FY2015) FY2015 Performance						
uilding a recycle-oriented society	Development and	©Eurther introduce and promote recycle design that	CO2 emissions volume in logistics FY2001 36% reduction 42% reduction						
	Design	considers effective resource use	to the market conditions (Set and worked to achieve disassembly time targets: Nibbler = 21 minutes or less, Manual disassembly = Time required for previous vehicle or less.) ·Implemented parts selection and considered application for use of market discarded resins						
	Production and Logistics	©Effectively use resources and reduce emissions in production and logistics activities	<emissions> ·Reduction of paint waste and wastewater sludge in production activities ItemBase year Target (FY2015) FY2015 Performance</emissions>						
			Waste substances Emissions volume per vehicle FY2008 5% reduction 17% reduction Valuable materials: metal scrap (stamping waste materials, etc.) for fee-payable recycling indicate and paddle waste avectage avec/scrap						
			 vvaste substances: money back recycling, incineration or waste, and landfill waste substances <logistics></logistics> Reduced packaging material use by continuing to use things such as packaging and shipping 						
oward b			Item Base year Target(FY2015) Fy2015 Performance Volume of packaging and wrapping materials used Fy2001 47% reduction 56% reduction						
Efforts .	Coordinating With Society	⑦Promote new businesses to invest in building a recycle-oriented society	•Developed TABWD*1 flame retardant injection molding material using cedar from woodland thinning as reinforcement fiber. It is used in the wiring harness protectors of Alphard and Vellfire hybrids.						
ervation and s with nature	Development and Design	Soundly manage chemical substances in products	 Conformed to new material restrictions in each country. Japan: Deca-BDE restriction of the Chemical Substance Control Act (TMC Policy is for changeover by May 2017.) → Completed investigation of parts containing the substance (old-model parts). Will complete changeover by TMC policy deadline. Carried out management for material restrictions (1) Carried out chemical substance management for new vehicle parts and materials. → No restricted substances are used. (2) Conducted audit activities for environmental impact substances (10 substances) in mass production vehicle products. → No problems were found. Constructed a system for management of overseas subsidiaries. → Conducted parts on for IMDS registration training of local responsible staff. 						
Promoting environmental cons building a society that coexist	Production	③Reduce SOCs in production activities	Improved paint sticking efficiency in paint process, and reduced VOC by reducing the amount of paint and cleaning thinner and other measures.						
			Item Base year Target(FY2015) FY2015 Performance Body paint VOCs Emissions volume per painted vehicle unit area FY1998 68% reduction 73% reduction						
	Coordinating With Society	@Make efforts for biodiversity	•Held environmental workshops using the biotope and other resources of Fure-Ai Park for members of the local community, nearby elementary schools, kindergartens, and employees (August and September). The park is also used as a place for instruction in environmental preservation techniques and for research presentations.						
		OPromote social contribution activities to invest in building coexistence with nature	Enhanced forest creation activities ··· Toyota Auto Body Group companies thinned 32 hectares of Aichi Prefectural forest areas (732trees) Succeeded in training 3 leaders during FY 2015 as we work to make the activity independent.						
ental management	Management	Promote and enhance consolidated environmental management	·Enhanced cross-development activities and information sharing through periodic liaison meetings (1/M) with overseas operations						
		Promote further coordinated environmental activities with suppliers	Assured use of raw material sub-materials not included in Toyota's Prohibited Substances by thoroughly managing such chemical substances Implemented activities for demanding items for observing environmental conservation and also activities for understanding for construction companies						
		Promote global CO2 management	 Created a collection of energy-saving improvement case studies. Conducted on-site audits of and provided support for energy-saving activities. 						
		③Reduce life-cycle burden on the environment through active planning toward Toyota ECO-VAS	Implemented environmental assessment (ECO-VAS) with cooperation of Toyota Motor Corporation for vehicle model changes and new models						
Environme		Promote sustainable plant activities	 Headquarters, and Fujimatsu Plant: Opened the Kariya Fure-Ai Park to the local community and used it for environmental workshops and other purposes. Inabe Plant: Used Relaxation Area for Interaction with Nature for monozukuri (manufacturing) experiences and other purposes. Yoshiwara Plant: Constructed the Yamaboshi Park (space for convenient interaction with the local community). 						
		@Promote and achieve environment education	·Implemented environmental e-learning (June) and also stratified education						
			Issued CSR Report (Uploaded to our official homepage on June 11) Held Community Social Gatherings at the Fujimatsu, Inabe, and Yoshiwara Plants.						

Fifth Toyota Auto Body Environmental Action Plan – Database

< >: Target value

Category	Item		Units	Reference year	2011	2012	2013	2014	2015	
Building a low-carbon society	Reduction in production CO2 emissions	Toyota Auto Body	(1) Total emissions	(Thousands tons CO2)	201 (1990)	208	219	219	213	196 <191>
			(2) Amount absorbed by forests*	(Thousands tons CO2)	0	▲ 3.4	▲ 3.9	▲ 4.5	▲ 5.1	▲ 5.7
			Net result [(1) – (2)]	(Thousands tons CO2)	201	204.6	215.1	214.5	207.9	190.3
			Unit emissions	(CO2 kg/vehicle)	317	281	274	285	289	264
					(2001)					<285>
		Global	Unit emissions	(CO2 kg/vehicle)	328	279	265	271	261	255
					(2001)					<315>
	CO2 emissions volume in logistics		Total emissions	(Thousands tons CO2)	9.9	6.1	5.9	6.0	6.1	5.7
					(2001)					<6.3>
Building a	Reduction in waste materials		Unit emissions	(kg/vehicle)	15.4	13.2	12.9	14.3	13.1	12.8
recyclingoriented					(2001)					<14.7>
	Volume of packaging and wrapping materials used		Total emissions	tons	2.3	1.3	1.2	1.2	1.1	1.0
					(2001)					<2.1>
Building a society that lives	SReduction in body VOC emissions		Unit emissions	g/m2	100	33	32	30	26	27.5
in harmony with nature					(2001)					<32>

* Value calculated by an outside manufacturer based on data concerning tree planting and woodland thinning activities conducted by Toyota Auto Body in Japan and overseas.