

Product Environment Committee Chairperson:  
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## Looking Toward Development of Environmentally Friendly Products

In order to contribute to society in the 21<sup>st</sup> century, we are developing and providing environmentally friendly products through further resource-saving while constantly developing finely-crafted products that meet the needs of communities. We are also developing products that surpass our customers' expectations. The pillars of our product development are to make efforts to achieve management of products containing chemical substances, improve fuel efficiency, and provide ease of dismantlement and recycling.

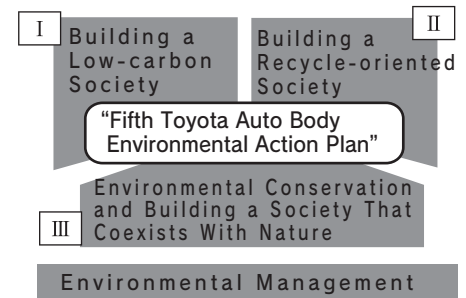
Into the future, further kaizen will allow us to realize continuous growth and the ability to contribute to society through providing products and vehicle manufacturing that harmonizes with the environment of our earth.

### Fundamental Approach

Based on the "Fifth Toyota Auto Body Environmental Action Plan," we have raised the following critical themes:

- I .Development of weight reduction and aerodynamic technologies that contribute to top-rated fuel efficiency performance in looking to become a low-carbon society.
- II .Further progress in recycle design that considers efficient use of resources in looking toward being a recycle-oriented society, and
- III .Global progress in management of chemical substances in products for environmental conservation and coexistence with nature.

With the themes, we develop specific action items and promote comprehensive environmental management.



### <Development Organization and Action Items>

Organization		Action Theme	Action Content
Product Environment Committee	MI*1 (weight reduction) subcommittee I	■ Improve fuel efficiency	● Developing and commercializing weight reduction technology that contributes to improving vehicle fuel efficiency
	Recycling and dismantlability subcommittee II	■ Improve recycling and dismantlement	● Parts dismantling time reduction, and applicability and expansion of market disposal resin recycling material
	Product chemical substance subcommittee III	Vehicle Design W/G ■ Measures for chemical substance regulations ■ Measures for vehicle interior VOC *2 regulations	● Confirming and managing regulated chemical substances , and handling and changeover for environmental regulations of different countries ● Progressing with assessment of diagrams and actual vehicles
		Mass Production W/G ■ SOC *3 auditing activities	● Confirming of no SOC in new products, mass production part sampling inspection, and performing of supplier inspection
	Non-subcommittee activities I III	■ LCA *4 evaluation (Life Cycle Assessment) ■ Measures for polyvinyl chloride usage volume regulations (Japan, Europe) ■ Improve fuel efficiency	● Investigating materials and weight, and confirming CO <sub>2</sub> reduction ratio ● Having less than 1.5% chlorine volume ● Developing and commercializing aerodynamic technology for improving vehicle fuel efficiency

\*1 MI:Mass Innovation

\*2 VOC:Volatile Organic Compounds

\*3 SOC:Substance Of Concern

\*4 LCA:Life Cycle Assessment



Toyota Auto Body Hybrid Production Cars and COMS Environmental Specifications