

Realizing a Sustainable Society For the Global Environment

Green products

← P5 CSR Policy 25

● Raising the ratio of green product sales

2006 Result: 83% (Target: 80%)
2007 Target: 83%

Since 1999, the Hitachi Chemical Group has been conducting Green Product Assessment and certifying products that meet the specified standards to reduce the environmental impact of products at each stage of their life cycle.

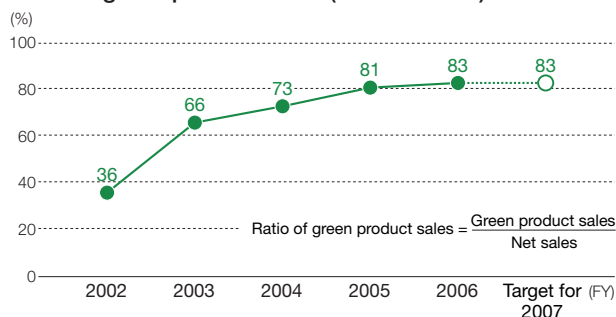
Led by the Product Safety Committee, we assess our products at each stage of the design, testing and mass production process, based on the eight criteria designated for individual product types. As of March 2007, green products totaled 98 on a non-consolidated basis and 269 on a consolidated basis, while their ratios to sales were 85% and 83%, respectively.

Examples of our green products are introduced on page 17.

● Eco-efficiency indicators and eco-factors

Since 2005, the Hitachi Chemical Group has adopted eco-efficiency indicators to measure the value that a

Ratio of green product sales (consolidated)



product creates by reducing environmental impact and resource consumption and, furthermore, encourages developers and designers to take the environment into consideration.

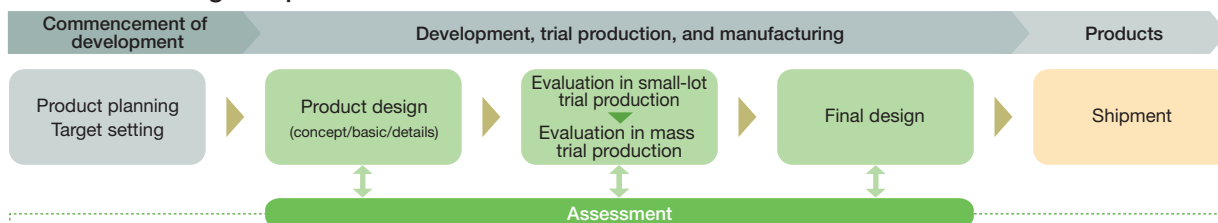
By calculating the ratio of greenhouse gas emissions to functionality for the product's entire life cycle (global warming prevention efficiency) as well as the ratio of resources newly consumed or disposed of, we objectively consider and assess environmental impact as well as product value and impact throughout its life cycle. Such factors as product value and effects, for example longer product life, are included in calculating eco-efficiency. In addition, we calculate factors that indicate enhanced eco-efficiency against a base year in an ongoing improvement effort.

The Hitachi Chemical Group assessed seven products in 2006, and plans to calculate the eco-efficiency of 18 more products in 2007. We will also calculate the factors for these products to reinforce our eco-friendly manufacturing.

Calculation results for eco-efficiency and eco-factors are published on our website.

URL <http://www.hitachi-chem.co.jp/english/csr/environment/factor.html>

Assessment for green products



We assess our products based on checklists that consist of eight criteria. The product is defined as a "green product" if the rating of each of the eight criteria is at least two on a scale of five points (max) and either the average rating is at least three or any one criteria is rated at the highest level.

Checklist of materials and parts

Criteria for evaluation	Description
Product functionality	Higher functionality per unit of resource
Resource saving	Reduction of resource consumption
Resource recycling	Recycling of resources and a recycle-based society system
Chemical safety	Reduction of risks to human health and use of hazardous substances
Green chemistry	Reduction of environmental impact of chemical substances
Environmental conservation	Reduction of total environmental impact
Energy saving	Energy saving in the manufacturing process and in use
Information disclosure	Provision of information about disposal and waste treatment

Checklist of finished products

Criteria for evaluation	Description
Reducing weight	Resource saving, downsizing, weight reduction and standardization
Longer useful life	Durability, reliability, and ease of repair/maintenance
Reuse and recycling	Use of recycled materials
Ease of disassembly	Ease of disassembly and separation
Ease of processing	Ease of crushing and decomposition
Environmental conservation	Reduction of total environmental impact
Energy saving	Energy saving in the manufacturing process and in use
Information disclosure	Provision of information about disposal and waste treatment