Environment-friendly products and action plan

We at Kubota are tackling the development of environment-friendly products as our environment-concerning activities for the products, deciding the achievement goals by product in the five fields shown below.

A.Products promoting saving energy and resource recycling

Reducing weight and reduction of number of parts
Using recycled materials

B.Saving energy products

Reduction of fuel and electric

C.Products with less chemical

chemicals and so on

Reduction of used amount of chemicals

Substituting alternative substances for

Effective use of energy and so or

Controlling generation of waste and so on

E.Products contributing to environmental conservation and remediation

Water purification

Reduction and recycling of waste and so on

Environment-friendly products we are going to realize

D.Products reducing local environmental load

Reduction of exhaust gas Reduction of noise

Water pollution prevention

Reduction of waste soil in construction

Contribution to cleaning and tree planting for sight and so on

Results of tackling environment-friendly products in fiscal 2003 (completed products)

Name of	Group of			Fields			Contents of activities
consolidated division	products	Α	В	С	D	Е	Contents of activities
	Iron pipes						Water purification
	Steel pipes						Effective use of energy, reducing waste soil in construction
Industrial	Plastic pipes						Using recycled raw material, controlling used pipes generation
infrastructure	Valves						Reducing weight, reducing waste soil in construction
	Materials	Materiala			Reducing fuel consumption, alternative substances to chemicals,		
	Materials						reducing drainage noise, reducing waste soil in construction, tree planting
	Tractors						Easily disassembling design, reducing exhaust gas, reducing exhaust noise and running r
	Working machines						Reducing weight, reducing number of parts
	Agriculture-related products						Water pollution prevention, recycling waste
Farm and	Agricultural facilities						Reducing electric power consumption, water pollution prevention
industrial machinery	Construction						Recycling used parts, reducing chemicals,
nacililery	machinery						reducing exhaust gas and noise
	Engines						Reducing exhaust gas
	Electric equipments						Saving resources, reducing electric power consumption
	Automatic vending machines						Reducing electric power consumption
	Drinking water and sewage						Reducing electric power consumption, water purification, reducing waste
	Water environment						Water purification, reducing waste, effective use of waste
engineering	Recycling						Reducing weight, reducing electric power consumption, reducing noise and vibration, Reducing
	Pumps						Effective use of energy, water purification
Housing	Housing material						Using recycled raw material, reducing chemicals
materials and utilities	Joukaso						Reducing waste soil in construction, water purification
-	Air condition equipment						Controlling generation of waste, reducing electric power consumption, reducing chem

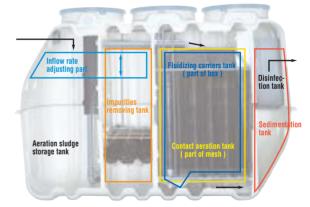
An Example of LCA implementation

Hybrid small-sized Joukaso

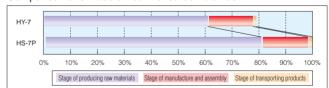
We compared the environmental load of hybrid small-sized Joukaso HY type, adopting two steps treatment of fluidizing carriers plus contact aeration, with that of usual contact aeration Joukaso HS-P type.

HY type Joukaso is smaller and lighter by about 30% respectively compared with HS-P type Joukaso because of design of miniaturization, though they have the same function.

As a result, emitted amount of carbon dioxide, from the stage of producing raw materials to the stage of transporting products, was reduced by about 21% compared with HS-P type. We are now tackling environmental load reduction in our mid- and large-sized Joukaso by miniaturizing and lightening them.



Comparison of emitted amount of carbon dioxide



Environmental label

Eco mark

Item	Name of product	Consolidated division
Eco mark	Bio green grass (biodegradable lubricant)	Farm and industrial machinery

Specific procurement items in the Law on Promoting Green Purchasing

Field	Classification of items	Names of items	Our products		
	Capatrustian machinery	Construction machinery with reducing exhaust gas	Construction machinery		
Public	Construction machinery	Low noise construction machinery	Construction machinery		
construction	Materials (piping materials)	Recycled hard PVC pipes for drainage	Three-layered hard PVC pipes using recycled foaming material		
	Construction method (method of effective use of waste soil in construction)	Method of effective use of low quality soil	Duc-pile method		
Equipments		Photovoltaic system	Ecolony		

Green procurement and purchasing

We at Kubota joined the Green Procurement Network in 1996.

And we have been promoting green procurement in which the environment-friendly products should take priority over other products.

We decided green procurement guideline regarding raw materials and parts in April 2001, in order to reduce the environmental load in cooperation with our venders, conducting the investigation of their tackling environmental activities and so on. We are now promoting this system in all of our plants.

In November 2001, we decided green procurement promotion standards regarding specific procurement items in the Law on Promoting Green Purchasing, and now are intend to purchase the products which meet the judging standards in the law. We have made the system in which we can calculate the amount and the ratio of green purchasing.

Number of our eco-vehicles

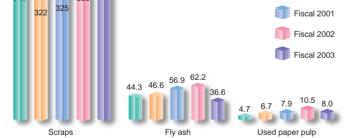


According to the system, the amount of green purchasing was 29.40 million yen, the ratio of green purchasing was 57.0 % in fiscal 2003.

We will make an effort to increase the ratio, aiming at 100% in fiscal 2005.

Fiscal 1999 Fiscal 2000

Procured amount of recycled materials (thousand ton)



Our green procurement guideline can be seen on our home page of materials procurement. http://www.procure.kubota.co.jp/housin/index01.html



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Complying with the Law for Promotion of Sorting and Recycling of Containers and Packaging

We sell a various kind of products to the companies and consumers.

The packing of these products is various.

Almost all products are shipped with the packing that has no relation to the law.

We grasped the total amount of the packing, relating to the law, for our products in fiscal 2002 in the wake of the previous year.

As a result, the amount of plastic packing and paper packing used were approximately 410 ton and approximately 1,670

ton respectively.

However, the discharged amount of waste as municipal solid waste was extremely small, because almost all products were shipped to the dealers, or were unpacked at the distribution stage.

We positively and continuously promote our activities changing to recyclable materials in order to construct recycling-oriented society, and reducing containers and packaging in order to prevent global warming.