

Production Activities

Fundamental Thinking

DENSO's basic policy is to protect the environment from a global perspective and achieve clean factory operations in each business group. In addition to preventing environmental pollution in compliance with concerned regulations, the Company is working in line with the following objectives to minimize energy and resource consumption in production processes: 1) conserve energy in production processes, 2) reduce the

in-house waste generated by production processes, 3) reduce the environmental impact generated by production processes, and 4) completely eliminate the use of ozone-depleting substances.

In fiscal 1998, DENSO attained a CO₂ unit usage level of 96.4 (Index: 1990 = 100) by reducing crude-oil consumption to the equivalent of 23,000 kiloliters and is thus contributing to the prevention of

global warming. In addition, by following the principles of the 3R (Reduce, Reuse, and Recycle) Action Plan, the Company reduced the amount of industrial waste generated to 59% of the 1990 level and attained its goal for the year. In efforts to reduce the environmental impact of its production processes, DENSO realized its targets for reducing nitrogen, phosphorus, cyanide, and chromium in its effluent.

Activity Objectives and Results

Goal	Item	Activity Objectives	Results
Prevention of Global Warming	1. Conserve energy in production processes	CO ₂ unit value to be below 100 (Index: 1990 = 100)	CO ₂ unit value of 96.4 Implementation of measures to reduce energy consumption 23,000 kiloliters (crude-oil basis)
Resource Conservation and Recycling	2. Reduce the in-house waste generated by production processes	Volume of industrial waste to be less than 12.5 kilotons (less than 59% of the 1990 level)	12.5 kilotons (less than 59% of the 1990 level)
Reduction of Environmental Impact	3. Reduce the environmental impact generated by production processes	Reduction of nitrogen and phosphorus in effluent	Component-cleaning processes without using nitric acid Reduction of ammonia water use in semiconductor processes Installation of denitrogenization and dephosphorization effluent processing
		Reduction of cyanide and chromium in effluent	Elimination of cyanide and chromium use with alternative reagents Implementation of closed-loop system for chromium effluent
	4. Completely eliminate the use of ozone-depleting substances	Complete elimination of HCFC-225 by the end of fiscal 1999	In progress



4,000kW gas turbine cogeneration system (Nishio Plant)