



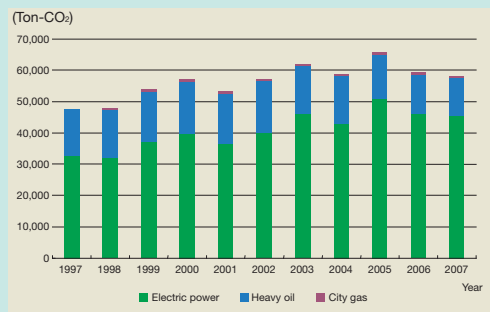
The Shindengen Group uses business as an opportunity to promote environmental management, for the sake of the future of society and the welfare of humanity.

Our corporate group is a market leader in power electronics and promotes development and supply of products such as low-loss semiconductors, high-efficiency power supplies, etc., with superior environmental characteristics to save energy, reduce CO₂ emissions, and prevent global warming.

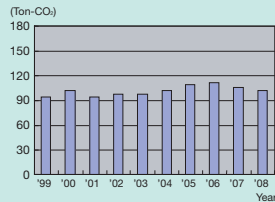
■ CO₂ Reduction

CO₂ emissions from our group factories in Japan totaled 57,783 tonnes in 2008, an increase of 1.2% over 2007 because the CO₂ emissions coefficient*¹ increased compared to the previous year*², but power consumption actually decreased to 102 million kWh or down 3.8% compared to the previous year. Also, heavy oil consumption dropped to 3,953 kl, a year-on-year decrease of 10.7%.

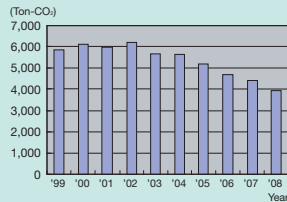
Change in CO₂ emissions of Japan group companies



Change in power consumption of Japan group companies



Change in heavy oil consumption of Japan group companies



■ Reduction of Industrial Waste Zero Emission Activities

The domestic plants of the company group have been engaged in zero emission activities*³ since 2003. As a result, zero emissions were achieved at all group domestic factories in 2006. Also in 2008, the annual landfill rate for the entire group was 0.2% compared to total emissions and each domestic company achieved zero emissions.

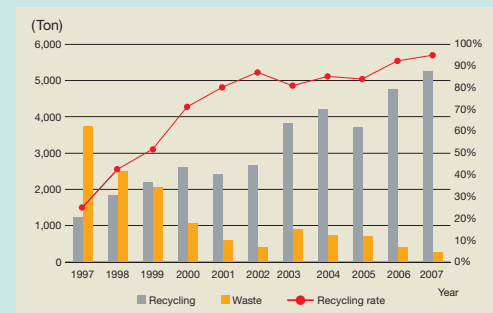
■ Amount of Wastes, Recycling Amount, and Recycling Rate of The Company Group

The corporate emissions and recycling rate for 2008 are shown below; a high recycling rate of 96.5% was achieved in 2008.

Amount of waste, recycling amount, and recycling rate of group in 2008

	Japan	Overseas	Total
Amount of waste (unit: ton)	38 t	153 t	191 t
Recycling amount (unit: ton)	3,123 t	2,191 t	5,314 t
Recycling rate	98.8%	93.5%	96.5%

Change in amount of waste, recycling amount, and recycling rate



* The above data includes overseas group companies since 2003.

■ Introduction of Environment-Friendly Products

● Device Products

ICs for power-saving power supplies: MR8000 Series

■ Major Market

DVD/Blu-Ray Players and Recorders, etc.

■ Saving Energy

The new ICs for power-saving power supplies add dip-skipping where one or two partial resonance dips are skipped at light load to remain on in the normal mode and improve suppression of frequency oscillation. Also, in the standby mode, the sequence has been changed so the Z/C terminal shifts to standby for 3 V and above (reverse of normal). This eliminates the photo-coupler signal and cuts power consumption by 10 mW compared to conventional products (MR1722).

■ Saving Natural Resources

A protection circuit that is activated when an overload continues for a predetermined time in the normal mode has been added, making it easier to design DVD/Blu-Ray players and recorders and miniaturize parts, saving natural resources and cutting labor costs.

Efficiency of Traditional and Developed Products

	Traditional Product	Developed Product	Comparison
Efficiency at light load	72.7%	78.3%	5.6% Up

Conditions: V_{in} = 220 V, P_o = 7 W

*1 The coefficient used to calculate CO₂ emissions from power consumption is announced annually by the power utility.

*2 The ratio of carbon-free nuclear power in the generation mix dropped due to a decrease in the number of nuclear power plants online during the year.

*3 Our corporate numeric goal for zero emissions is less than 1% of annual landfill rate versus total emissions.