

Building Super Green Factories

Sharp is raising environmental awareness at its production sites all over the world. Using proprietary standards to rank a factory with high environmental consciousness as a Green Factory, and one with extremely high environmental consciousness as a Super Green Factory, Sharp plans to convert all domestic and overseas Sharp Group production sites into Green Factories or higher by fiscal 2007.

Objectives for Fiscal 2005	Achievements	Objectives for Fiscal 2006	Objectives for Fiscal 2007
Sharp Corporation production sites: 10 (two SGFs and 8 GFs achieved by fiscal 2004) ● Raise average improvement rate of environmental performance by 11% compared to fiscal 2003	→ Approx. 16%	● SGF 5 GF 5	● All SGF
Domestic production sites (subsidiaries and affiliated companies): 7 ● GF 4	→ GF 3	● GF 5	● All GF or higher
Overseas production sites (subsidiaries and affiliated companies): 22 ● GF 4	→ SGF 1 GF 7	● SGF 1 GF 14	● All GF or higher

SGF: Super Green Factory GF: Green Factory

Upgrading All Plants to Green Factories

At Sharp, a factory must achieve a high degree of environmental consciousness to earn the title of "Green Factory." The "Green Factory Guidelines" formulate the basic policies and operational know-how for realizing a Green Factory in line with 10 concepts. These guidelines were introduced to all domestic production sites from fiscal 1999 onward and at all overseas production sites from fiscal 2001 onward.

In fiscal 2003, Sharp drew up specific assessment criteria to evaluate environmental performance and began assessments for in-house certification.

Sharp plans to upgrade all Sharp Corporation production sites to Super Green Factories and all other Sharp Group production sites to Green Factories or higher by fiscal 2007.

Green Factory concept

Greenhouse gases	Minimize emission of greenhouse gases
Energy	Minimize energy consumption
Waste	Minimize discharge of waste
Resources	Minimize resource consumption
Chemical substances	Minimize risk of environmental pollution and accidents caused by chemical substances
Atmosphere, water, soil	Minimize environmental burden on the atmosphere, water and soil
Harmony with nature	Endeavor to preserve nature both on and off site
Harmony with the community	Encourage harmony with the local community
Environmental consciousness	High environmental awareness among employees
Information disclosure	Disclose information on the environment

Certification of Green Factories and Super Green Factories

Assessment and approval follow 21 quantified environmental performance criteria grouped into five major categories. After evaluation, a plant scoring 70 points or more out of a possible 100 is certified as Green Factory, and one scoring 90 points or more is certified as Super Green Factory.

When new factories are built, environmental impact assessments are incorporated at the early planning stages to achieve Super Green Factory status. Moreover, Sharp is

continually improving environmental performance at its existing plants as step-by-step upgrading.

Fiscal 2005 saw overseas production sites dramatically improve their environmental performance and the number of plants to achieve Green Factory status exceed the initial target. Of special note is SMF, Sharp's office equipment manufacturing plant in France, which was certified as the first Super Green Factory overseas (see pages 15 and 16).

Twenty-one quantified environmental performance criteria and assessment weighting

Environmental performance criteria	Reductions in greenhouse gas emissions	Release reductions of chemical substances	Appropriate disposal of industrial waste	Reductions in the consumption of industrial water	Monitoring, safety and information disclosure
	<ul style="list-style-type: none"> Reductions in PFC gases, etc. Promotion of variable supply control systems Recovery and recycling of waste heat Introduction of a cogeneration system Introduction of highly efficient equipment Introduction of new energy sources Continued reductions in emissions per production unit Implementation of managerial decision making standards 	<ul style="list-style-type: none"> PRTR atmospheric emissions PRTR water emissions Sulfioxide produced by combustion Eliminate all noxious odors 	<ul style="list-style-type: none"> Zero discharge to landfill Confirmation of appropriate disposal Recycle waste as valuable resources 	<ul style="list-style-type: none"> Use of rain condensation water Recovery of production rinse water 	<ul style="list-style-type: none"> Disaster and fire prevention measures for hazardous materials Special safety measures Adoption of central monitoring measures Disclosure of environment-related information
Assessment weighting	30	26	14	9	21

Process required to achieve Super Green Factories

