

Environmental Solutions

Developing environmental solutions supporting realization of a sustainable society. The Fujitsu Group's environmental know-how is proving effective.

Policy

The Fujitsu Group concentrated the know-how in environmental activities it has cultivated and is offering environmental solutions that support customers with the latest information technologies in an effort to contribute to realization of a sustainable society. These solutions are optimal for "environmental management," or conducting corporate activities efficiently with the environment perceived as a new source of competitiveness and reducing the environmental burden, and for "environmental administration," or pursuing global environmental preservation and environmental awareness activities through environmental communication.

Structure

Four environmental solutions

Corporations and local governments must engage in a broad range of activities — including manufacture of eco-friendly products, optimizing waste treatment, promotion of recycling, green procurement, continuous improvement of environmental activities through ISO14001 certification acquisition and environmental information disclosure — toward realization of a sustainable society. Our environmental solutions supporting these activities comprise a four-product system. When introduced, these solutions grasp environmental information accurately in business and administrative activities and reduce the burden efficiently. They also contribute significantly to activation of businesses and local communities through "environmental management" and "environmental administration."

Environmental solution Product/service examples

Eco-friendly product development support [ECODUCE]

Early establishment of a system supporting eco-friendly manufacturing and green procurement in manufacturing businesses

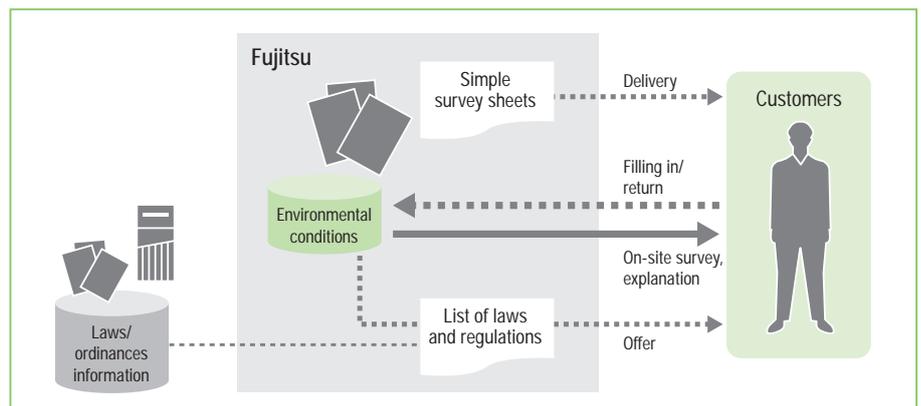
- Compilation of types and volumes of materials and chemical substances contained in products
- Correlation of substances contained with relevant laws and regulations and with business partners' purchasing regulations; evaluation of results
- Display of product parts formation in multiple stages/reverse development for easy understandability by designers
- Application of substances/materials/parts to searching parts/products using them



Environmental law and regulation support services

We help customers fulfill their obligation to specify legal and other matters conforming to ISO14001 standards by conducting surveys concerning their operations management with respect to the specified required matters and creating management forms.

- Confirmation of adequacy of response to original restrictions by prefectural/municipal ordinances as well as environment-related laws
- Provision of necessary information for judging applicability of laws and regulations simply and speedily with an on-site confirmation system employing simple survey sheets
- Offering of various options, including annual renewal processing and clarification of laws



Environmental solution introduction case studies

Case study 1 Shiraume Gakuen Junior College introduced a printing cost reduction system to conserve both human resources and the environment.

A junior college activity pursuing “education to deepen awareness of human life and support prosperous development”



Highly evaluated for its unique, free school spirit, Shiraume Gakuen Junior College, has

cultivated sophistication and human understanding among its students from various perspectives since its establishment

in 1942 based on its philosophy of “education engaging deep concern for society and people’s livelihood and offering learning to support them.”

Supporting effective application of resources and improvement of environmental consciousness of the students by removing printing waste.

Shiraume Gakuen Junior College introduced PrintBarrier to control PC-based printing in an

effort to improve the environmental consciousness of students by limiting the number of pages any individual could print as a means of encouraging selective printing. It features a preview function and duplicate printing disallow function to prevent printing errors and a printing log for individual users to support control by students. These efforts have not only reduced costs, but have contributed to raising environmental awareness at the school.

“We would be pleased to see our graduates spreading environmental awareness.”

Mr. Toshiyuki Kurasawa
Associate Professor,
Department of Psychology
Shiraume Gakuen
Junior College



Since we educate people as human resources, such as child-care providers and nursing care workers, who will raise and support others, we are responsible for imparting knowledge of our social and natural environment as human beings. We also wanted to enhance students’ awareness of the need to conserve printing paper and toner as part of the effective application of school resources. PrintBarrier’s introduction drastically reduced our paper and toner costs and, at the same time, made students more conscious of the desirability of

printing only necessary things without making mistakes. I think students have begun to realize that every sheet of paper is also a precious resource. We plan to introduce other measures to reduce costs and improve environmental consciousness among students as well. Ideally, students will conduct environmental activities voluntarily. And we would be especially pleased to see our graduates spreading environmental awareness among children and others.

Case study 2 Nippon Oil Corporation introduced an environmental information management system to collate environmental accounting and environmental performance data efficiently and unify its data management. It is now selling the system to customers.

Introduction of an environmental information management system reinforcing the environmental management basis



Nippon Oil Corporation and its Group companies introduced an environmental information management system in March 2004 to achieve efficient collation and unified Group management

of environmental accounting and environmental performance data. Besides handling environmental performance data collation, the system supports use of the data as an information

source for integrated evaluation of environmental improvement effects by every Group company.

Two management indices supporting simultaneous pursuit of environmental impact reduction and profit creation

The system supports efficient environmental management by permitting collation and searching of environment-related information from various angles. An “environmental accounting” capability permits collation of equipment investment for environmental measures and of maintenance expenses for the

equipment in monetary units, while an “environmental performance management” capability offers environment-related data collation in units of quantity. Nippon Oil Information Technology Corporation, a system subsidiary of Nippon Oil Corporation, has packaged the system, moreover, and initiated sales under the product name “ETSITE”^{*} in cooperation with Fujitsu. We are continuing to upgrade the system’s ability to respond to customers’ wide-ranging environmental management needs.

^{*} ETSITE: Environmental Total System by Information Technology

“We’ve seen positive improvements in the efficiency of environmental management Group-wide.”

Mr. Shun Kurimoto
Executive Officer and
General Manager
Environment & Safety Dep’t.
Environment, Safety & Quality
Management Division
Nippon Oil Corporation



Nippon Oil Corporation reformed its corporate structure last year, reorganizing the Environment Safety Department as the Society, Environment and Safety Department. This evidences our determination to deal with environmental issues while considering social issues as well as traditional environmental preservation. Integrating our Group companies’ environmental information and unifying its management is important for the establishment of Group-wide environmental management. We view introducing an IT-based environmental information management system as the first step toward simultaneous realization of environmental impact reduction and profit creation.

The system’s introduction has enhanced the efficiency of data collation for disclosure through our social environmental reporting covering information for 17 main companies. Its information-sharing capabilities also enable anyone in the Group to access information whenever necessary for responding to inquiries. The industrial waste management function increased efficiency at the sites, moreover, by systemizing the waste management operations formerly conducted manually. We plan to apply this system to management operations besides information collation to support corporate management analysis and decision-making.