

TOSHIBA TEC Environmental Report 2000



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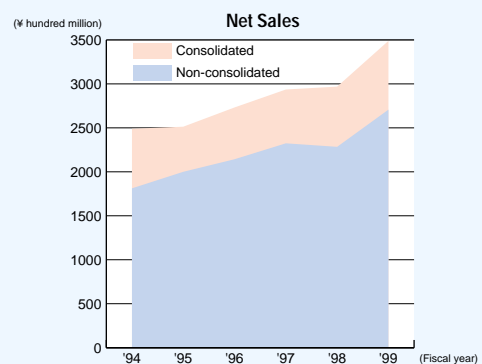
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Genpeigawa River, Mishima

Company Profile

Company name:	Toshiba TEC Corporation
President and CEO:	Ken-ichi Mori
Foundation:	February 21, 1950
Number of employees:	Approx. 5,600 (as of June 2000)
Paid-in capital:	¥39.9 billion
Consolidated sales:	¥348.8 billion (Fiscal 1999)



The First Issue of Our Environmental Report

We must protect the Earth, by preserving nature, clean water, and the blue sky.



Toshiba TEC Corporation originated in Izu - a place full of nature. From the beginning, Toshiba TEC strove to work in harmony with nature, clean water, and the air. We regard environmental protection as one of the most important issues in the management of our company. To that end, all our staff implements activities to protect tomorrow's global environment, in cooperation with our customers and our neighborhoods.

Today, our society is abandoning mass production, mass consumption and mass disposal. We have taken steps forward to establish a recycling society. We have done this by saving energy, reducing raw materials used, using recycled resources, and reducing and properly disposing of waste. All of these steps help to reduce environmental impacts, and preserve the environment.

As a member of the Toshiba Group, our slogan is "Committed to People, Committed to the Future." We have been struggling to turn the 21st century into a century of environmental awareness. To assist us in reaching our goal and to prevent global warming, we are also developing environmentally conscious products, controlling chemical substances, saving resources, and recycling end-of-use products.

Toshiba TEC regards the year 2000 as a fresh start for establishing the recycling society and general environmental awareness. This report summarizes Toshiba TEC's activities for protecting the environment in the fiscal year 1999. To keep our awareness high, we plan to issue our environmental reports for years to come.

Through this message, we hope you understand how committed we are to improving the environment, and making it a healthy place for all of us to live. We welcome your comments and suggestions.

A handwritten signature in black ink that reads "Kenichi Mori". The signature is written in a cursive, flowing style.

Ken-ichi Mori
President and Chief Executive Officer
October 2000

To Our Readers

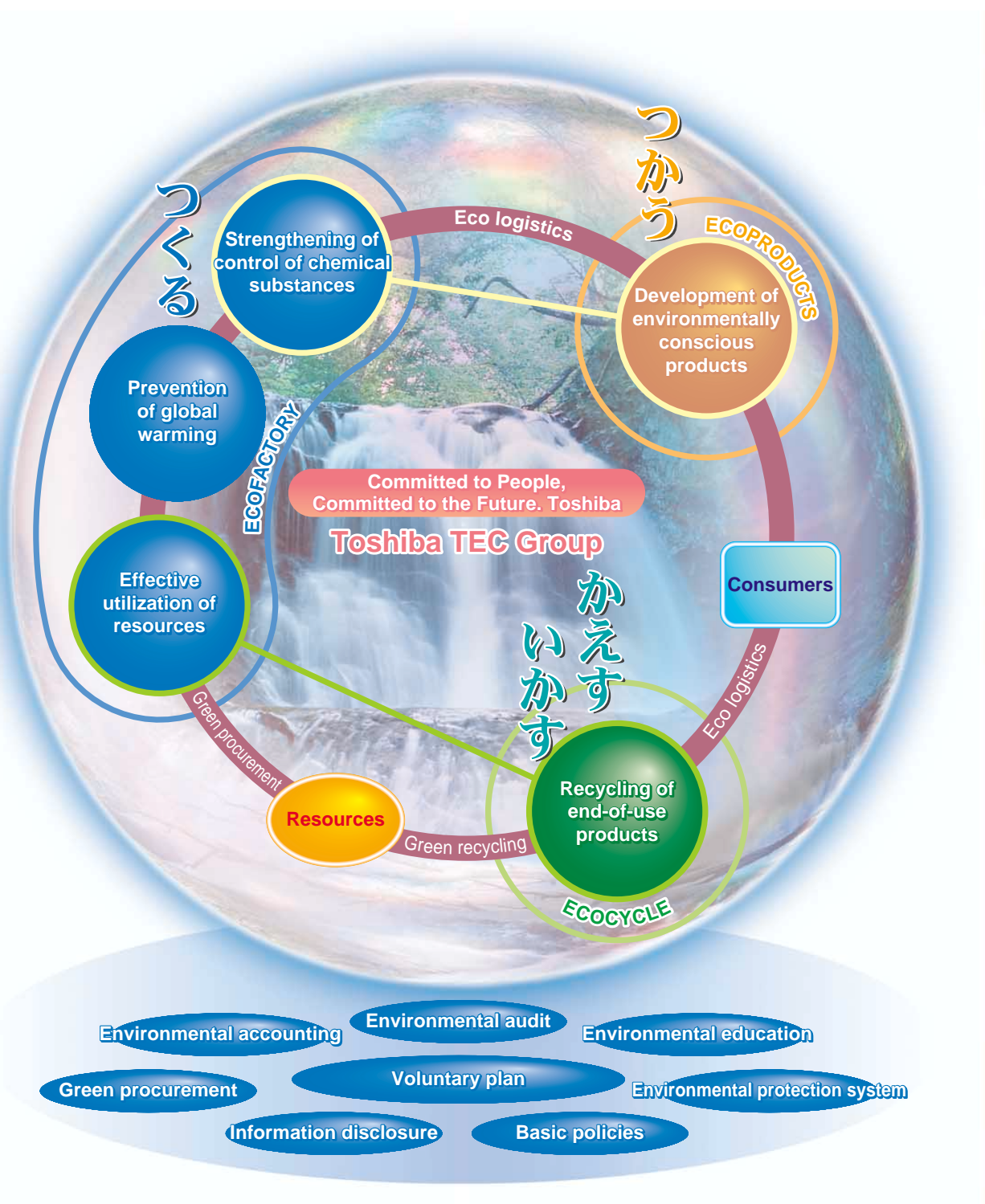
The Environmental Report 2000 is the first that Toshiba TEC has issued.

This Environmental Report describes the environmental phase of Toshiba TEC Group's business activities, focusing on the fiscal year 1999. Since this Environmental Report is issued for the first time in Toshiba TEC's history, it contains details of our activities so far.

This report contains activities of Toshiba TEC and its domestic subsidiary companies*. Data from the subsidiary companies was mainly confirmed at the Environmental Audit. Activities of the overseas subsidiary companies are mentioned on pages 24 and 25.

To improve our reports for the future, we would like your candid comments and opinions.

* The domestic subsidiary companies are mentioned as domestic production footholds on page 28.



Basic Philosophy and Policy for Environmental Protection

Basic policy for environmental protection

Toshiba TEC implements activities for environmental protection in accordance with the business sites' environmental policy based on the corporate basic policy for environmental protection. The business sites are located in the Fuji-Hakone-Izu National Park and the Tanzawa-Oyama Quasi National Park, where there is a rich, natural environment. Therefore, water quality preservation in rivers and ground water is set forth under the following watchwords: "Town of Water, Greenness and Culture, Hometown of Water" at the Mishima Works; "The Clear Kanogawa River and The Nature of The Region" at the Ohito Business Center; and "Hometown of Superb Water" at the Hadano Plant.

Basic Philosophy for Environmental Protection

We, the Toshiba TEC Group companies, based on the recognition that the basic obligation of existing human beings is to hand down to our next generation, our irreplaceable Earth in a sound state. Therefore, we are determined to act according to the Toshiba TEC Group's management philosophy and policy.

For the business activities, products and services that have a great impact on the environment, we set objectives and targets, in every phase of the group, to the extent that is technically and economically possible, in order to continually improve the environmental management system.

Basic Policy for Environmental Protection

- (1) Toshiba TEC Group considers environmental protection to be one of management's primary responsibilities.
- (2) Toshiba TEC Group specifies objectives and targets for its business activities, products and services to reduce environmental impacts and prevent pollution.
- (3) Toshiba TEC Group continually strives to improve the environment through vigorous implementation of environmental measures.
- (4) Toshiba TEC Group complies not only with laws and regulations, and industry guidelines, which it has endorsed, but also its own standards for environmental protection.
- (5) Toshiba TEC Group contributes to society through its environmental protection activities, which include the development and supply of excellent, environmentally conscious technologies and products in cooperation with the local community.
- (6) Toshiba TEC Group recognizes that natural resources are finite and promotes their efficient use.
- (7) Toshiba TEC Group educates all its employees to enhance their consciousness of the environment.
- (8) Toshiba TEC Group instructs and supports subsidiary companies to advance environmental activities throughout the Toshiba TEC Group.
- (9) Toshiba TEC Group notifies those inside and outside of the group, of implementations of the environmental protection activities as needed.

Environmental Policy of Business Sites

富士電機株式会社 三島事業所 環境保全基本方針

富士電機株式会社は、人と自然が共生する社会の実現に向け、地球環境の保全と、社会の発展に貢献することを基本方針として、環境保全活動に取り組んでいます。また、社会の発展に貢献するため、環境保全活動を通じて、社会の発展に貢献することを基本方針として、環境保全活動に取り組んでいます。

(1) 環境保全の推進は、経営活動の重要な要素として、経営活動の一環として推進する。

(2) 環境保全活動は、法令や規制等に基づき、環境保全活動を実施する。

(3) 環境保全活動は、環境保全活動を通じて、社会の発展に貢献することを基本方針として、環境保全活動に取り組んでいます。

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2023年 3月 1日
富士電機株式会社 三島事業所
環境部長 青木謙夫

Mishima Works

富士電機株式会社 大久保事業所 環境保全基本方針

富士電機株式会社は、人と自然が共生する社会の実現に向け、地球環境の保全と、社会の発展に貢献することを基本方針として、環境保全活動に取り組んでいます。また、社会の発展に貢献するため、環境保全活動を通じて、社会の発展に貢献することを基本方針として、環境保全活動に取り組んでいます。

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2023年 3月 1日
富士電機株式会社
環境部長 シズカオノハチロー 大久保事業所
環境部長 橋本 浩

Ohito Business Center

富士電機株式会社 湯浅工場 環境保全基本方針

富士電機株式会社は、人と自然が共生する社会の実現に向け、地球環境の保全と、社会の発展に貢献することを基本方針として、環境保全活動に取り組んでいます。また、社会の発展に貢献するため、環境保全活動を通じて、社会の発展に貢献することを基本方針として、環境保全活動に取り組んでいます。

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2023年 3月 1日
富士電機株式会社 湯浅工場
環境部長 橋本 浩

Yanagicho Works

富士電機株式会社 湯浅工場 環境保全基本方針

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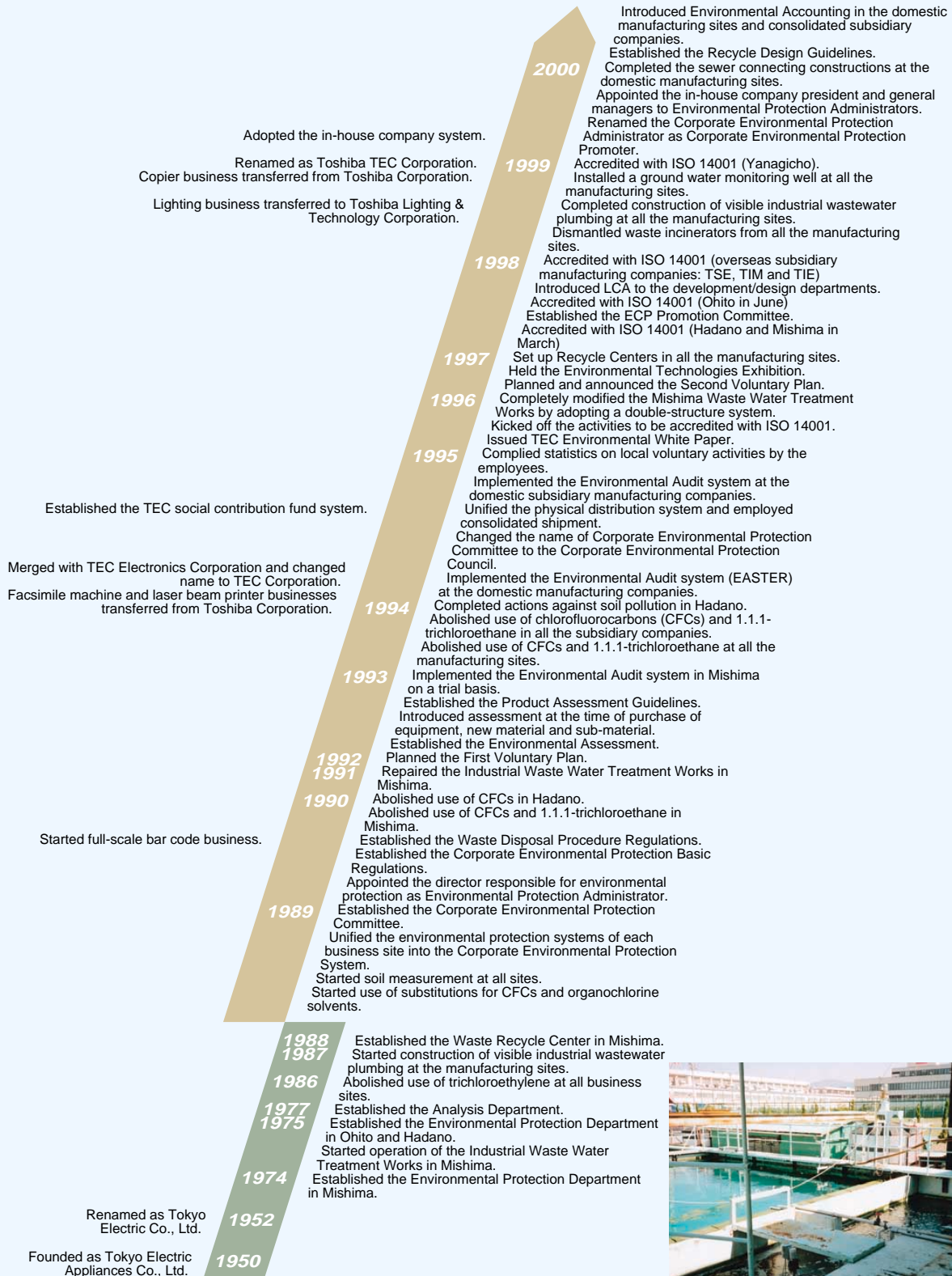
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2023年 3月 1日
富士電機株式会社 湯浅工場
環境部長 橋本 浩

History of Environmental Protection Activities

History of Toshiba TEC Group's Environmental Protection Activities

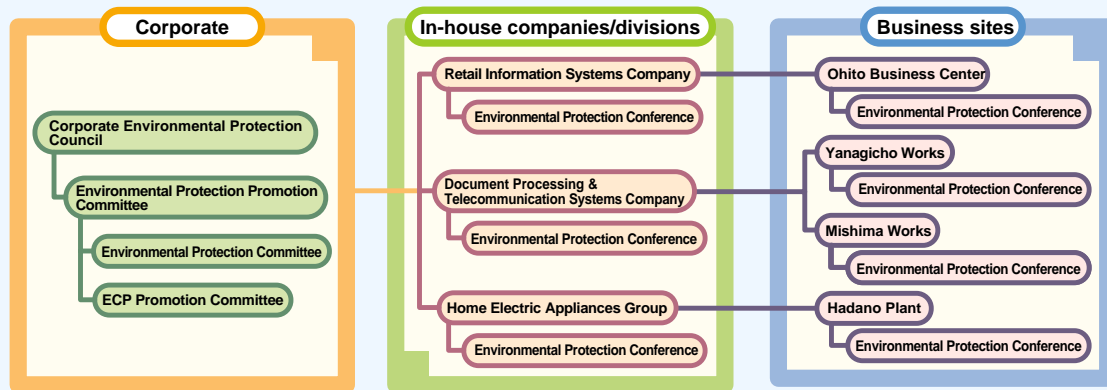


Old Industrial Waste Water Treatment Works, Mishima

Environmental Protection System

Environmental protection system

With aims of enhancing commitment to environmental protection throughout the Toshiba TEC Group and making it integral to the operation of every Toshiba TEC Group company, Toshiba TEC set up the Corporate Environmental Protection Committee in 1989 (renamed as Corporate Environment Council in 1994). Chaired by the Corporate Environmental Protection Promoter (director responsible for environmental protection), the council discusses and determines various environmental issues. As its subordinate organizations, the environmental protection conference was set up in the in-house companies, divisions and business sites, to advance the corporate activities for environmental protection.



Ohito Business Center

Cultivated with the tradition of being the birthplace of domestic office equipment and excellent technologies, the Ohito Business Center manufactures POS systems and electronic cash registers, as the center of Toshiba TEC's electronic equipment manufacturing. In the same area (Ohito-cho, Tagata-gun, Shizuoka Prefecture), there are MIFUKU PLANT (Toshiba TEC's Component Business Group), TEC IZU DENSHI CO., LTD. and TEC PRECISION, INC., all of which supply main components to the manufacturing sites of each in-house company.



Yanagicho Works

The Yanagicho Works develops, designs, manufactures and services copiers and toner worldwide. It also technically supports the manufacturing footholds in the United States, France and China. TOSHIBA TEC DOCUMENT PROCESSING SYSTEMS CO., LTD. and TOSHIBA COPY TECHNOS CO., LTD., responsible for the development and service operation, are present on the same premises, to work as one body together with Toshiba TEC.



Mishima Works

The Mishima Works supplies main components to the subsidiary manufacturing companies in Asia, as well as manufactures facsimile machines, printers and online terminals. Technology Laboratory was established inside the Mishima Works and plays a key role in product development.



Hadano Plant

The Hadano Plant is proud of its automated line for the state-of-the-art vacuum cleaner motors. It manufactures home electric appliances including vacuum cleaners, juicers, mixers, cooking cutters, and health equipment such as air massage chairs and mats.

Voluntary plan

The ultimate objective of all environmental endeavors is to create an economy and society that is in harmony with the Earth's environment. For this purpose, it is incumbent on companies to assume greater social responsibility and act as good corporate citizens.

Toshiba TEC created the voluntary action plan for environmental protection to set up commitment items, targets, and investments in equipment. This plan is continually modified for improvements.

In April 1993, concrete commitment items were announced as its first voluntary plan. As a result of reviewing it in April 1996, Toshiba TEC confirmed that 5 out of 7 commitment items were achieved: abolition of the use of chlorofluorocarbons (CFCs), abolition of the use of 1.1.1-trichloroethane, implementation of product assessment, improvement of product recycle ratio, and abolition of the use of CFCs, trichloroethylene and 1.1.1-trichloroethane by the subsidiary companies. The other 2 items (energy saving and reduction of waste) were not achieved. Based on the result, Toshiba TEC determined and announced its second voluntary plan, containing 12 commitment items, which were submitted to the relevant administrative authorities.

Achievement of the second voluntary plan (April 1996 to March 2001)

	Commitment items	Targets	Result in fiscal 1999
1	Implement product assessments	All products from fiscal 1995	100% implementation starting with the Home Electric Appliances Group in 1991.
2	Reduce use of parts and materials that are difficult to recycle	30% reduction by fiscal 2000	27% reduction (Home Electric Appliances Group)
3	Reduce weight per product function	10% reduction by fiscal 2000	18% reduction (Home Electric Appliances Group)
4	Reduce electricity consumed per product function	10% reduction by fiscal 2000	9% reduction (Home Electric Appliances Group)
5	Reduce weight of product packaging	30% reduction by fiscal 2000	4% increase (Home Electric Appliances Group); Corrugated cardboard used instead of Styrofoam.
6	Reduce time required to disassemble products	30% reduction by fiscal 2000	20% reduction (Home Electric Appliances Group)
7	Reduce use of Styrofoam packaging	50% reduction by fiscal 2000	100% reduction (Home Electric Appliances Group); Styrofoam-less packaging achieved.
8	Reduce ratio of waste to net sales	75% reduction by fiscal 2000 compared with fiscal 1990	90% reduction (Corporate)
9	Reduce ratio of energy consumption to net sales	25% reduction by fiscal 2000 compared with fiscal 1990	8% reduction (Corporate)
10	Secure ISO 14001 certification	All business sites by fiscal 1997	100% certified (Corporate)
11	Establish and implement a product environmental vision	Establish vision by fiscal 1996 and then implement	100% implementation (Corporate)
12	Reduce utilization of toxic chemical substances	33% reduction of the ratio of toxic chemicals used to net sales by fiscal 1997 and 50% reduction by fiscal 2000, measured against fiscal 1994	25% reduction (Corporate)

The third voluntary plan (April 2001 to March 2006)

	Commitment items	Targets (fiscal 2005)
1	Zero emission* of waste	Achievement in fiscal 2003
2	Reduce release of chemical substances	30% reduction compared with fiscal 2000
3	Improve ratio of CO ₂ release to net sales	25% reduction in fiscal 2010 compared with fiscal 1990
4	Green procurement	Set target with fiscal 2000 as a benchmark
5	Provide product information	Ratio of products which are in compliance with the voluntary environmental standards: 50%
6	Reduce electricity consumed per product function	30% reduction compared with fiscal 2000
7	Apply lead-free soldering	Application of lead-free soldering to all products by fiscal 2003
8	Abolish HCFCs**	Abolish by December 2004

* Zero emission is defined as a final disposal quantity of 1% or less of the total discharge.

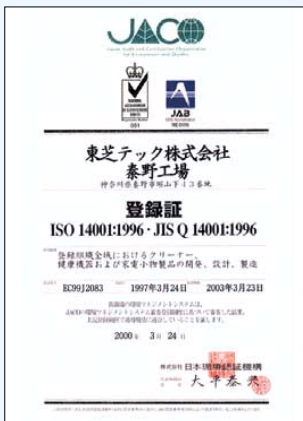
** Hydrochlorofluorocarbons (HCFCs), substitutes for CFCs, are within the scope of regulation and their use is to be abolished by 2020 as determined in the Montreal Protocol. Toshiba TEC plans to abolish the use of HCFCs before the deadline.

Continuous commitment to environmental protection

Toshiba TEC has established a system to reduce environmental impacts and to continually implement environmental protection activities. Considering ISO 14001, the international standard for environmental management systems to be an effective tool, Toshiba TEC has been recommending that its domestic and overseas subsidiary companies be accredited with it.

● ISO 14001 certifications at domestic business sites

The Hadano Plant and the Mishima Works were accredited in March 1997 and the Ohito Business Center in June 1997. This indicates that all the three domestic manufacturing sites are certified. Toshiba TEC received an extended examination that included examinations at its subsidiary companies at the renewal time. The Yanagicho Works had been certified in October 1996 as a Toshiba business site, and was accredited also as a business site of Toshiba TEC in January 1999.



Hadano Plant



Mishima Works



Ohito Business Center



Yanagicho Works

● ISO 14001 certification at overseas subsidiary companies

To provide the overseas subsidiary companies with the management system similar to that for the domestic business sites, Toshiba TEC intended for the three footholds in Southeast Asia to be accredited with ISO 14001 by the end of fiscal 1999 and offered various supports to them.

As a result, TEC SINGAPORE ELECTRONICS PTE. LTD. and TIM ELECTRONICS SDN. BHD. (Malaysia) were certified in April 1998. PT TEC INDONESIA was certified in August of that same year. The target was reached ahead of the schedule.

According to the transfer of the copier business from Toshiba to Toshiba TEC, the overseas subsidiary companies in Europe, the United States, and China were accredited, in succession.

Singapore

Malaysia

China

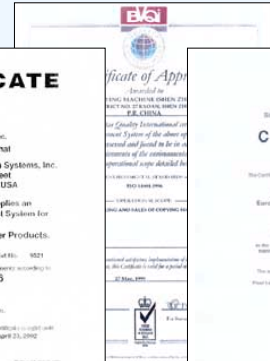
Indonesia



France



United States



Germany



Environmental Accounting

Introduction of environmental accounting

Toshiba TEC has introduced the Toshiba Group's environmental accounting system in order to quantitatively grasp the costs and benefits of environmental protection and utilize the quantitative data as guidelines for business activities.

● Outline of environmental accounting in fiscal 1999

Toshiba TEC calculated environmental costs and their benefits in accordance with the guidelines established by the Environment Agency of Japan in May 1999.

1. Scope

- a) Subject period: April 1, 1999 to March 31, 2000
 b) Subject of tabulation: Toshiba TEC Corporation
 TOSEI DENKI CO., LTD.
 TEC IZU DENSHI CO., LTD.
 FUJI KEN CO. LTD.

2. Environmental costs

- a) Capital expenditure, R&D expenditure and current expenses whose purpose is to reduce environmental impacts attributable to business activities.
 b) Environmental costs including expenses for prevention of pollution, energy saving, and recycling.
 c) Other environmental costs including expenses for development of environmentally conscious products, collection of end-of-use products and recycling.

3. Benefits

a) Direct benefits

Those resulting from reduced charges for electricity, water, waste disposal, etc., and gains from sale of items with value.

b) Assumed benefits

Reduction in environmental impacts on atmosphere, water and soil converted into monetary values based on data from compensation regarding environmental matters and environmental standards (reduction in environmental impacts is indicated in terms of comparison with the previous fiscal year).

● Issues to be addressed

These statistics are a part of those of the Toshiba Group. Toshiba TEC will continue to gather data, consolidate them on a timely basis, and improve the system including the evaluation method.

Environmental costs

(Thousands of yen)
 * Figures in parentheses are figures for Toshiba TEC on a non-consolidated basis.

Classification		Content	Expenditure	Current expenses	Total cost
Costs concerning business sites		Reduction of environmental impacts 1) to 3)	213,211 (199,562)	153,301 (142,102)	366,512 (341,665)
Contents	1) Cost of pollution prevention	Atmosphere, water, soil, etc.	20,795 (12,167)	41,142 (38,606)	61,937 (50,775)
	2) Cost of global environmental protection	Prevention of the greenhouse effect, protection of the ozone layer, etc.	185,463 (182,326)	9,502 (7,611)	194,965 (189,936)
	3) Cost of recycling of recourses	Effective utilization of resources, reduction of volume of waste, etc.	6,953 (5,069)	102,657 (95,885)	109,610 (100,954)
Cost in production flow		Green procurement, recycling, etc.	123 (0)	248,492 (217,554)	248,615 (217,553)
Management activities cost		Environmental education, etc.	0 (0)	120,817 (119,188)	120,817 (119,188)
R&D cost		Development of environmentally conscious products	12,894 (9,727)	1,492,211 (1,446,921)	1,505,105 (1,456,648)
Social activities cost		Planting of plants, disclosure of information, etc.	1,044 (1,044)	67,560 (74,101)	68,604 (75,145)
Cost of recovery from environmental damage		Recovery from soil pollution, etc.	0 (0)	0 (0)	0 (0)
Total			227,272 (210,333)	2,082,381 (1,999,866)	2,309,653 (2,210,199)

Environmental benefits

(Thousands of yen)
 * Figures in parentheses are figures for Toshiba TEC on a non-consolidated basis.

Benefits	Environmental impact volume (98-99)	Economic benefits	
		Direct benefits	Assumed benefits
CO2	1,768 t (1,512 t)	123,957 (107,161)	
Final disposal of waste	154 t (112 t)	39,174 (34,868)	
Water	149,403 t (139,303 t)	2,245 (1,671)	
BOD	4,000 kg (3,300 kg)	3,966 (3,259)	
Fluorine	1,000 kg (800 kg)	1,023 (1,023)	
Total nitride	0 kg (0 kg)	0 (0)	
Particles of soot	40 kg (40 kg)	1 (1)	
NOx	500 kg (500 kg)	13 (13)	
SOx	1,300 kg (1,300 kg)	28 (28)	
Other	2,500 kg (2,300 kg)	31,993 (26,736)	
Total		202,400 (174,760)	37,024 (31,060)

Expenditure for environmental protection

Toshiba TEC has been investing in various environmental protection measures to reduce environmental impacts caused by its business activities, and prevent environmental risks. Such expenditure includes monitoring, and measurements to maintain the voluntary environmental standard values as well as the introduction of the production process that generates lower environmental impacts and environmental expenses related to the laws and regulations. Toshiba TEC has publicized its environmental commitment to the whole Toshiba TEC Group, and aimed to improve the level of consciousness of the environment.

● Outline of expenditure for environmental protection

According to the recommendation to abolish the use of organochlorine solvents (1.1.1-trichloroethane) that were used in the cleaning process and chlorofluorocarbons (CFC), Toshiba TEC introduced watery cleansing equipment starting in 1990. Considering that its business sites are located in areas with clear water streams, investments were made mainly in water quality preservation until 1997. Since the prevention of global warming has been strongly called for recently, Toshiba TEC decided to introduce energy-saving equipment and to use clean energy to reduce CO₂ in 1997.

Improvement of facilities



Visible plumbing (not in the ground)



Repaired stone fence adjacent to public road

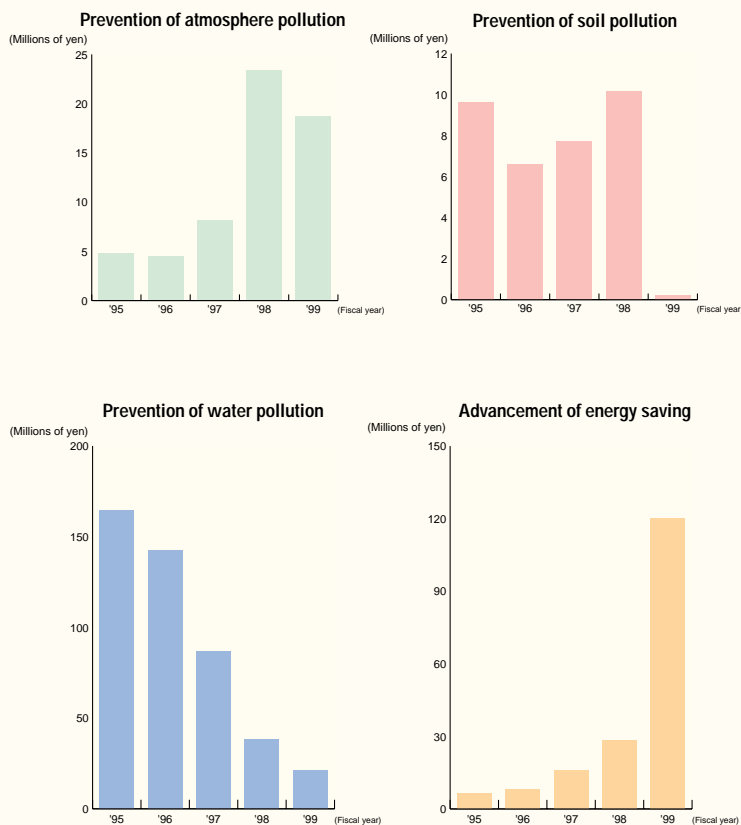


Double-structure adopted in waste water treatment works



Scrubber installed

Transition of expenditure for environmental protection

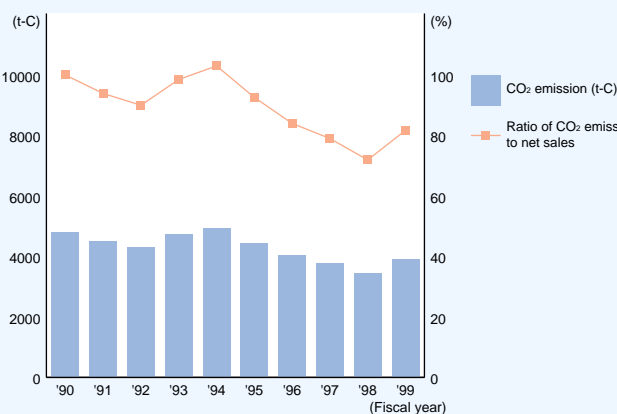


Prevention of global warming

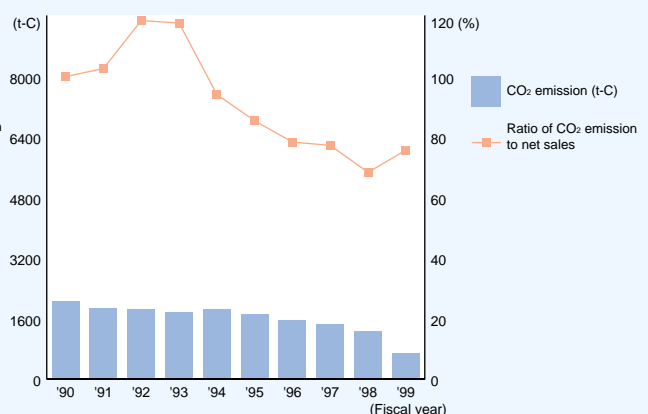
Since the Third Conference of Parties to the United Nations Framework Convention on Climate Change (Kyoto Conference), international efforts have been made to reduce gases that cause the greenhouse effect. Toshiba TEC is contributing to the prevention of global warming by taking action to save energy and reduce CO₂ emissions throughout its business activities.

The target is to achieve 25% improvement in the ratio of CO₂ emissions to net sales by fiscal 2010, compared with fiscal 1990. In fiscal 1999, energy-saving efforts resulted in a 18% decrease of CO₂ emissions compared with fiscal 1990 and a 18% improvement in the ratio of CO₂ emissions to net sales, compared to fiscal 1990. Toshiba TEC decided to take further actions for preventing global warming by making use of new energy.

● Reduction of CO₂ emission and ratio to net sales (corporate)



● Reduction of CO₂ emissions and ratio to production (Mishima Works)



Energy-saving/reduction of CO₂ emissions



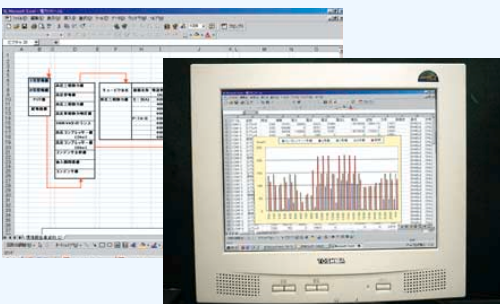
Energy consumption for air conditioning is reduced by adding insulating material to the roof of the facility.

(Reduction of energy consumption: 24.8%)



Toshiba TEC employs the ice heat storage system, which makes ice using nighttime electricity and uses the stored heat for daytime air conditioning.

(Reduction of power rate: 15.4%)



94% of the whole energy used in Toshiba TEC is electricity. The power monitor is set up in each division and on frequently used equipment, to provide control using a personal computer.



The fuel oil heaters were replaced with the natural gas heat pumps to reduce CO₂ emissions.

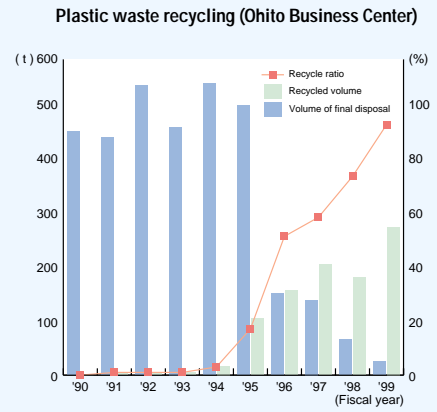
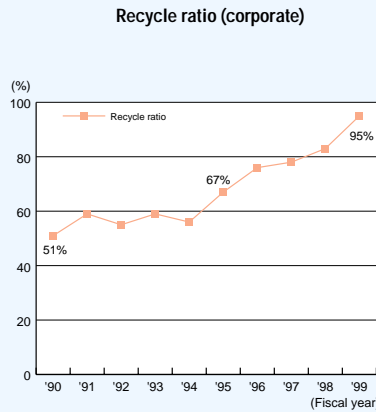
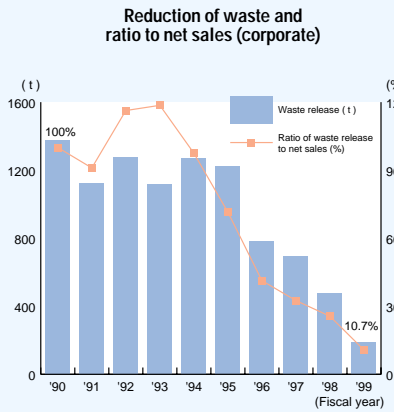
(Reduction of CO₂ emissions: 50%)

Reduction of waste

Toshiba TEC is reducing the volume of waste, and recycling of resources.

To recycle resources, efficient and effective separation of waste is essential. Each business site develops the ways to reduce waste by separating waste into over 50 categories from metal to paper, under the slogan "Refuse when mixed, Resources when separated."

● Reduction of waste and trend of recycling rate



● Zero emission

The Toshiba TEC Group started zero emission activities to reduce the volume of the final disposal of waste to 1% or less in fiscal 2003.

In addition to the reduction of waste, Toshiba TEC develops measures including green procurement.

● Volume reduction

Toshiba TEC reduces the volume of garbage, styrofoam packaging materials, plastics, empty cans and bottles before delivering them to industrial waste contractors for recycling.



How to separate wastes and where to store them are indicated in both Japanese and English. This encourages personnel from the overseas subsidiary companies to cooperate in waste separation.



Recycle center (Ecostation)



Recycle center (Hadano Plant)

Environmentally conscious products (ECPs)

Toshiba TEC manufactures and distributes the following environmentally conscious products (ECPs) under the brand name of **TEC**.

For details contact:
Environmental Machinery Sales Dept.
New Product Division
Retail Information Systems Company
Toshiba TEC Corporation
Phone: +81 - 3 - 5623 - 8271



PET bottle collecting machine



Empty can collecting machine



Large-size waste-disposing machine

Control of chemical substances

The number of chemical substances existing in the world is said to be 50,000 or 100,000. While these substances greatly benefit our life, some of them are considered to be toxic and their environmental impacts have become noticeable. Toshiba TEC is implementing activities to prevent risk caused by toxic chemical substances, by thoroughly controlling them daily, selecting chemical substances of less environmental impact and reducing their volume.

Toshiba TEC will establish a consolidation system for PRTR* using information technology.

● Risk control classification

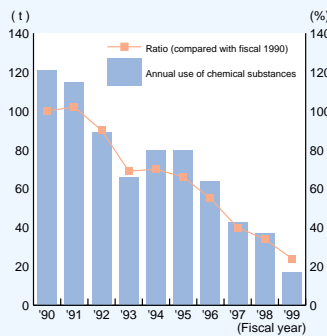
Environmental impacts of the handled chemical substances are evaluated to categorize them into three classifications (prohibition of use, reduction in use, and control of release). When a new chemical substance is employed, it should be evaluated and judged according to the Regulated Chemical Substances Control System in advance to judge whether or not it can be used and determine the control procedure, in order to prevent the risk it may cause. The Toshiba TEC's target is to achieve 25% reduction in the use of toxic chemical substances in fiscal 2000, compared to fiscal 1994.

● Prevention of air and water pollution

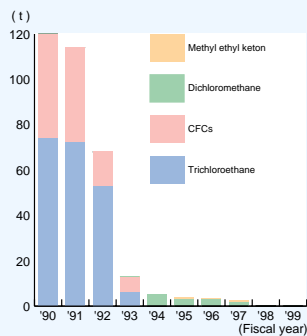
Toshiba TEC closed its three incinerators by February 1998, and is now reducing waste subject to incineration that is entrusted to external companies, by setting up a goal in each business site.

The use of CFCs that deplete the ozone layer and 1.1.1-trichloroethane was abolished in January 1993 by replacing organochlorine solvents with watery solvents and developing technologies such as the process that requires no cleansing operations, and the heated cleansing process. The use of dichloromethane and methyl ethyl keton was abolished in 1997 and 1999, respectively, by introducing substitutes.

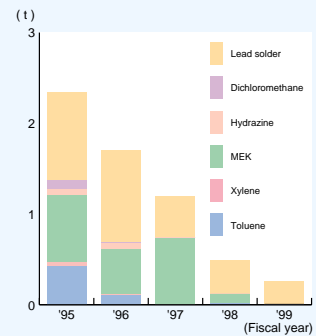
Annual use of chemical substances and ratio to net sales



Reduction of ozone layer depleting materials



Reduction of chemical substances in Hadano Plant



● Understanding material balance (PRTR)

Toshiba TEC started the trial introduction of PRTR* in 1998 to understand material balance in 2001 and make it public in 2002.

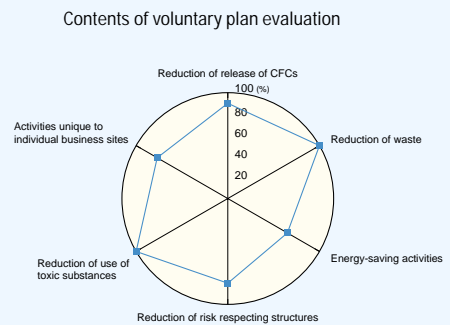
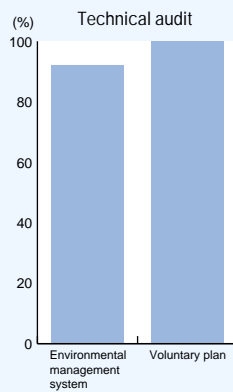
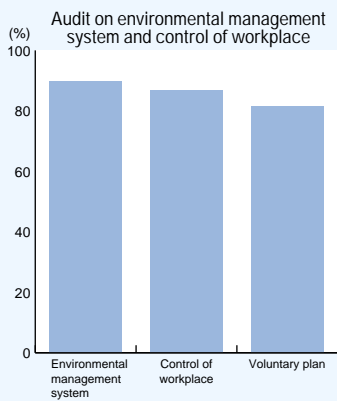
*PRTR: Pollutant Release and Transfer Register

Environmental audit

As a member of the Toshiba Group, Toshiba TEC has been implementing the voluntary audit from 1994, in accordance with the Environmental Audit System in Toshiba on the bases for ECO Responsibility (EASTER).

The "environmental management system" has been audited according to ISO 14001, and improvements in environmental performance such as "control of workplace" and "achievement of the voluntary plan" have been audited according to EASTER. The voluntary audit enables the objective evaluation of environmental protection activities in each business site and the transmission of such activities among the sites, in order to improve the level of environmental protection. The evaluation results are reported to the top management and reflected in management operations.

● Results of audit in accordance with EASTER



Business sites	JAB certified assistant auditors	Auditors certified by ISO 14001 auditor training organization		Auditors certified by Toshiba (EASTER)	
		Chief auditors	Internal auditors	Workplace system auditors	Technical auditors
Headquarters	2	2	1	2	1
Ohito Business Center	2	3	22		1
Mishima Works	1	7	13	1	1
Yanagicho Works		2	5		1
Hadano Plant	2	7	17		1
Subsidiary companies		3	16		
Total	7	24	74	3	5

● Environmental audits



Presentation at a business site under examination



Auditing in the field



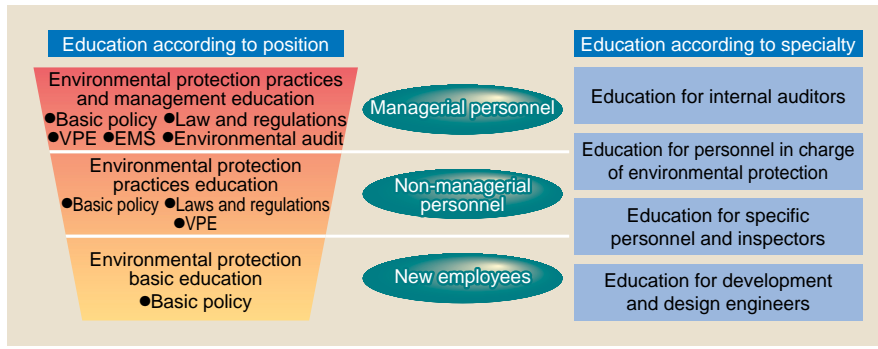
Internal auditing



Open auditing according to EASTER

Environmental education

The education according to position in the company is offered to the personnel at every level from new employees to senior management, to enhance the environmental consciousness and expertise. The curriculum includes the basic policy for environmental protection, the laws and regulations concerning the environment, the voluntary plan for environmental protection (VPE), the environmental management system (EMS) and the environmental audit. Not only Toshiba TEC personnel but also the personnel of the subsidiary and cooperating companies receive environmental education.



● Education for internal auditors, specific personnel and engineers

Toshiba TEC provides education for internal auditors and specific personnel to audit in compliance with the ISO 14001 requirements. Through their official qualification, the trainees recognize the necessity for fairness and observe the laws and regulations.



Education for internal auditors

The engineers receive environmental engineering education in order to advance the creation of environmentally conscious products.

● Activities to raise awareness

As a part of its activities for environmental protection, Toshiba TEC installed bulletin boards at all the business sites to notify not only its personnel, but also the neighborhood, of matters regarding environmental protection. The employees are provided with environmental cards and obliged to carry them in order to raise environmental awareness. In addition, Toshiba TEC periodically issues environmental news.



Bulletin board for notification of environmental matters



Environmental news issued at each business site

Emergency Measures

● Measures for risks

At the business sites, environmental risks may be caused by the following:

1. Leakage of liquid chemical substances from on-site rainwater sewage to the outside.
2. Oil leakage from the environmental protection-related facilities and manufacturing equipment
3. Littering and leakage of waste from waste collection places

Improvements on the facilities and equipment have been made to prevent the above risks.



Valve for cutting off rain sewage in case of abnormality



Grated pits around the dangerous substance warehouse



Emergency cut-off training for final discharge outlet



Oil-water separation tanks adopting the double-structure system



Grated pits around the place to keep waste water and containers for emergency



Emergency training for facility that uses fuel oil

● Training for emergency

Assuming an emergency is caused by an earthquake, heavy rain, fire, power failure, or equipment breakdown, that may affect the environment, each business site is providing training for emergencies. Toshiba TEC has created emergency measure standards to minimize the spread of damage to the local environment and bring an end to the emergency. If they find, in the training, any point that needs improvement, corrective and preventive measures are reviewed according to the standards.

Actions for preserving soil and ground water

The Mishima Works and the Hadano Plant are located in spring water areas at Mt. Fuji and the Tanzawa mountain range, respectively. Next to the Ohito Business Center there is a clear stream from the Kanogawa River. Under the circumstances, water quality preservation is considered to be an important issue of the environmental policy at these business sites.

Toshiba TEC took measures to control soil pollution at an early stage and has been implementing regular voluntary measurement and monitoring.

A little 1,1,1-trichloroethane was found at the Hadano Plant in 1990. Though the finding was before the Environmental Quality Standards for Soil Pollution was announced (1991), Toshiba TEC notified the City of Hadano of the pollution and took actions for purification. They replaced the soil located adjacent to the ethane tank, and vacuum-suctioned the place to store components, under instructions from the city. As a result, the city certified that the plant completed purification activities in 1994. The Hadano Plant has been continuously monitoring water quality using the monitoring well installed on the premises.

The monitoring wells also were voluntarily installed in the Ohito Business Center and the Mishima Works after deliberation with the Mishima and Ohito municipalities. These business sites regularly report the water quality analysis results to the local governments.



Digging for monitoring well

Environmentally conscious products

Toshiba TEC strives to create Environmentally Conscious Products (ECPs) whose environmental impact is minimized at every stage of their life cycle - from materials procurement, manufacture and distribution, to consumption and eventual disposal. To develop ECPs, considerations have been in energy saving, resources saving, improvement of recyclability, and reduction and substitution of chemical substances that have environmental impacts. Through the concept of 3R* that was added recently, Toshiba TEC is implementing activities not only for recycling, but also for reducing waste and reusing parts.

*3R: Reduce, Reuse, and Recycle

● ECP creation promoting system

Toshiba TEC develops and manufactures products at four sites in Japan. The ECP Promoting Committee, established in 1997, has been solving corporate issues regarding development of ECPs.

● Evaluation of products' environmental impacts

In addition to product assessment adopted basically as environmental impact evaluation at the development and design stages, Toshiba TEC started to use Life Cycle Assessment (LCA).

The product assessment started in the home electric appliances division, according to the execution of the Law for Promotion of Recyclable Resources in 1991, and was implemented for all products manufactured in all divisions since 1995.

LCA was introduced in 1997 and has been developed on a corporate-wide basis. In the home electric appliances division, LCA was incorporated in product assessment and is required to be implemented for main products.

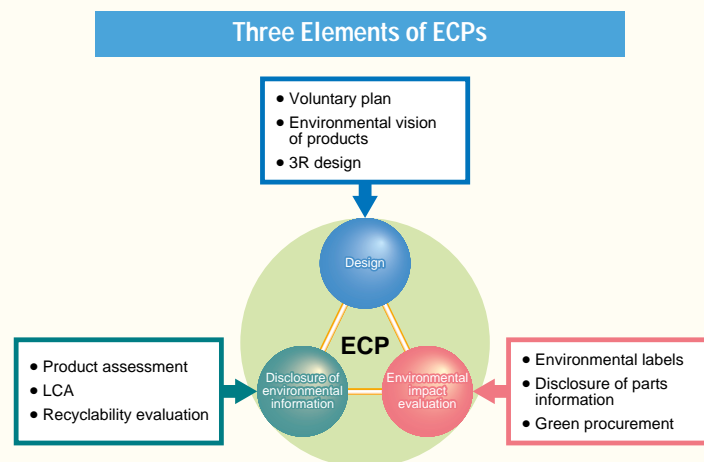
● Publications

Toshiba TEC issued the Recycle Design Guidelines in March 2000. The ECP Improvement Case Study is created periodically and the third edition describing the cases for the past two years was published.

By carrying out the environmental audit regarding technologies on a regular basis, Toshiba TEC strives to improve its activities for environmental protection.

● Issues to be addressed

Toshiba TEC is going to clarify the design standards that satisfy the 3R design concept (reduce, reuse and recycle) and reduce or abolish chemical substances having environmental impacts.



Copiers and facsimile machines

Toshiba TEC's environmental protection efforts made on copiers and facsimile machines used in offices, are described below.

● Energy-saving design

Actions including reduction in materials, downsizing of parts, decrease in the number of parts, and reduction in weight, have been implemented at the design stage. In the design of consumables, Toshiba TEC is struggling to extend the life of the photo conductor and the developer.

Parts standardization is implemented for the DP8070 copiers. By extending the periodic check cycle of the developing unit by 40% (compared to the previous model: 6560), maintenance work is reduced.

Thus, Toshiba TEC is committed to saving resources for consumables and maintenance parts, as well as the products themselves.

● Recycling of plastic parts

Approx. 20% of the total product weight of the copier is plastic parts. To facilitate recycling after collection, material names are indicated on the main parts.

Use of recycled materials is promoted. For example, the toner container is made of recycled plastic. Plastic containing specific bromine flame-retardant materials that may generate dioxin when incinerated is not used for external covers.

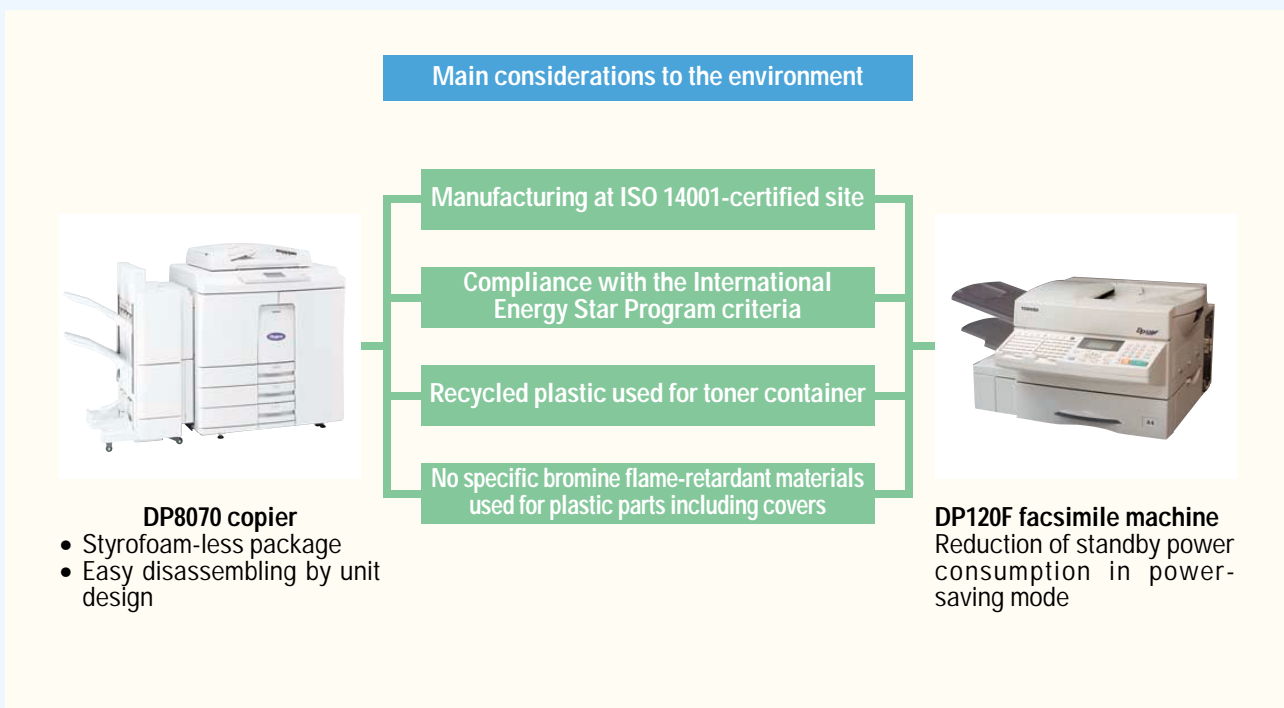
Main considerations made to the environment are described below.

● Energy saving design

Toshiba TEC participates in the International Energy Star Program so that the Energy Star symbol is used for OA equipment whose standby power consumption is less than the prescribed criteria. On the DP120F facsimile machine, a 70% reduction of the standby power consumption is achieved, compared to the previous model: TF861.



Energy Star symbol



POS terminals

The M-6800 POS terminal, used for supermarket checkouts, is introduced in comparison with the previous model: M-5800.

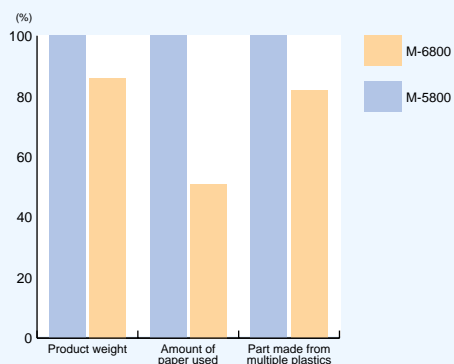
● Resource saving

Purchase information is stored as electronic data in the store controller via the communication line of the POS terminal, though it was previously output to the journal/receipt printer. This feature enables journal paper saving.

- Reduction in width: 80%
- Reduction of paper used: 51%
- Reduction in weight*: 86%



* Comparison of weight per product function according to Toshiba TEC's unique function index



● Recyclability

Plastics occupy 20% of the total weight. To improve recyclability, 75% of plastic parts are provided with the indication of material names. An 18% reduction in parts made from multiple plastic materials is achieved, compared with the previous model.

● Packaging materials

Styrofoam packages for POS terminal were made more compact, and thinner and pulp mold was employed for packaging. Furthermore, Toshiba TEC started to adopt package-less transportation in 1997 and a 57% reduction of packaging material was achieved, compared with fiscal 1995.

Office Computer

The office computers are used by medium and small-sized manufacturers and wholesalers to print invoices and slips.

● Resource saving

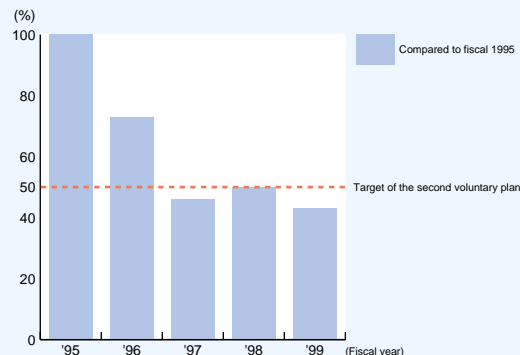
The office computers have been consistently adopting an easy-to-use and space-saving, all-in-one structure, from the first release of the series.

● Packaging materials

Pulp mold is used as packaging material for the latest model SJ-3 to reduce styrofoam packaging.

● Energy saving

Toshiba TEC has been using a power-saving LCD from the release of the first office computer series.



Vacuum cleaners

Product assessment is made on vacuum cleaners according to the standards of the Home Electric Appliances Group, at the planning, design and prototype production stages. LCA evaluation items are incorporated in the product assessment to create ECPs.

● Energy saving

Toshiba TEC is advancing the development of products of new technologies and new structures based on the slogan "Toshiba TEC leads the energy-saving movement."



- Toshiba TEC develops the compact and lightweight Inverter Motor that rotates at a high speed and outputs more power in spite of low power consumption, to contribute to energy saving. This high-performance motor is used in the VC-J21 vacuum cleaner.

● Environmental information management

Two-dimensional bar codes are attached to the rating label for the product to manage environmental information. The information will be more detailed.



Two-dimensional bar codes

● Reduction of chemical substances affecting the environment

- PVC-less



Bumper



Hose

- Lead solder-less

By using the Faston tab for the contact plate area of the cord reel, Toshiba TEC employs spot welding for the knife-edge plate and lead wire of the hose insertion opening.



Cord reel



Knife-edge plate

● Stopping the use of styrofoam

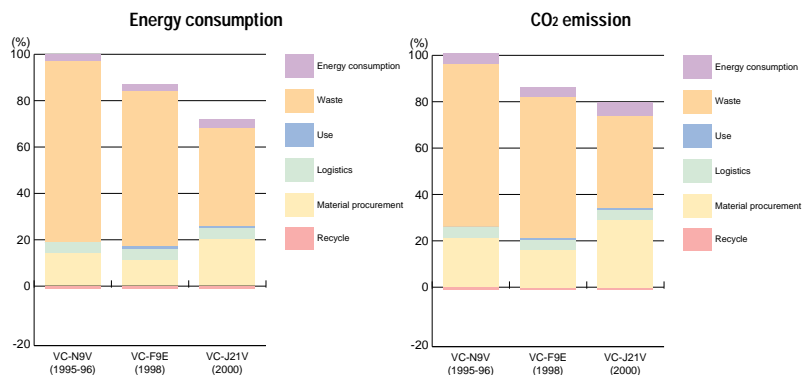
Styrofoam packages were abolished and corrugated cardboard packaging is used.

● LCA applications



VC-J21V developed in 2000
Reduction of power consumption: 50% compared with the previous model
Employs the inverter motor.
No air exhausted (no smell generated and no dust whirled)
Lowest noise in the industry (approx. 39 to 46 dB)

LCA analysis results



Environmental Considerations concerning Logistics

Activities to reduce environmental impacts during transportation and distribution

Toshiba TEC delivers an enormous number of products to its branches, and major supermarkets and department stores in Japan, mainly by trucks, which requires a reduction in weight of the products and packaging materials and in the volume of the packages. Furthermore, Toshiba TEC is adopting package-less transportation that uses exclusive containers to deliver the products, to reduce environmental impacts at the logistics stage.

In terms of the prevention of global warming, railway transportation is also adopted, since CO₂ emissions are low.

● Activities to reduce environmental impacts during transportation

The Retails Information Systems Company is implementing package-less transportation to reduce environmental impacts during transportation.

By assembling the product to the extent that the product can be operated (assembly before transportation), the packaging materials are substantially reduced to reduce the volume of the transported packages.

Since the reduction of packaging materials enables reduction in emissions of packaging waste for customers, it contributes to a reduction of cost in disposing of the waste.

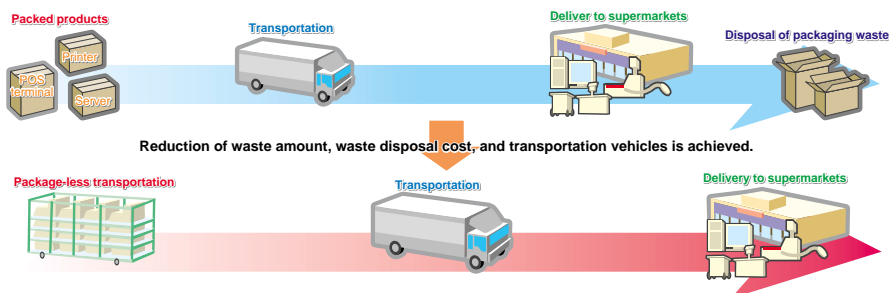


Effects of implementing package-less transportation

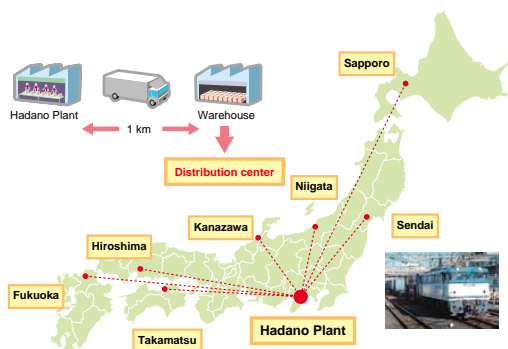
(Unit: Yen/set)

Keyword	Cost concerning	Before implementation (A)	After implementation (B)	Effects [(B) - (A)]
Package-less transportation	Materials	4,988	0	▲4,988
Direct transportation	Transportation	9,957	5,067	▲4,890
Assembly before transportation	Waste disposal	4,000	0	▲4,000
	Total	18,945	5,067	▲13,878

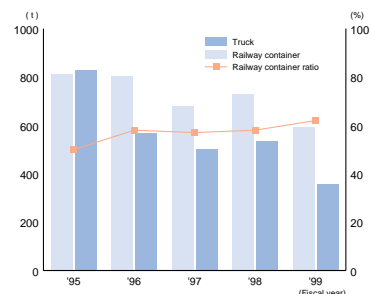
Package-less transportation system



Application of railway transportation



Transportation



Collection and Recycling of Products

The copier business division of the Document Processing & Telecommunication Systems Company has achieved a collection and recycling system in cooperation with its customers and firms including TOSHIBA INFORMATION EQUIPMENTS. CO., LTD., which distributes Toshiba TEC's copiers, and TERM CORPORATION which Toshiba TEC entrusts to conduct recycling.

Toshiba TEC manufactures various products including facsimile machines, POS terminals and vacuum cleaners in addition to the copiers. To play a role in establishing the recycling society, Toshiba TEC is now considering a further collection and recycling system: Reduce, Reuse and Recycle.

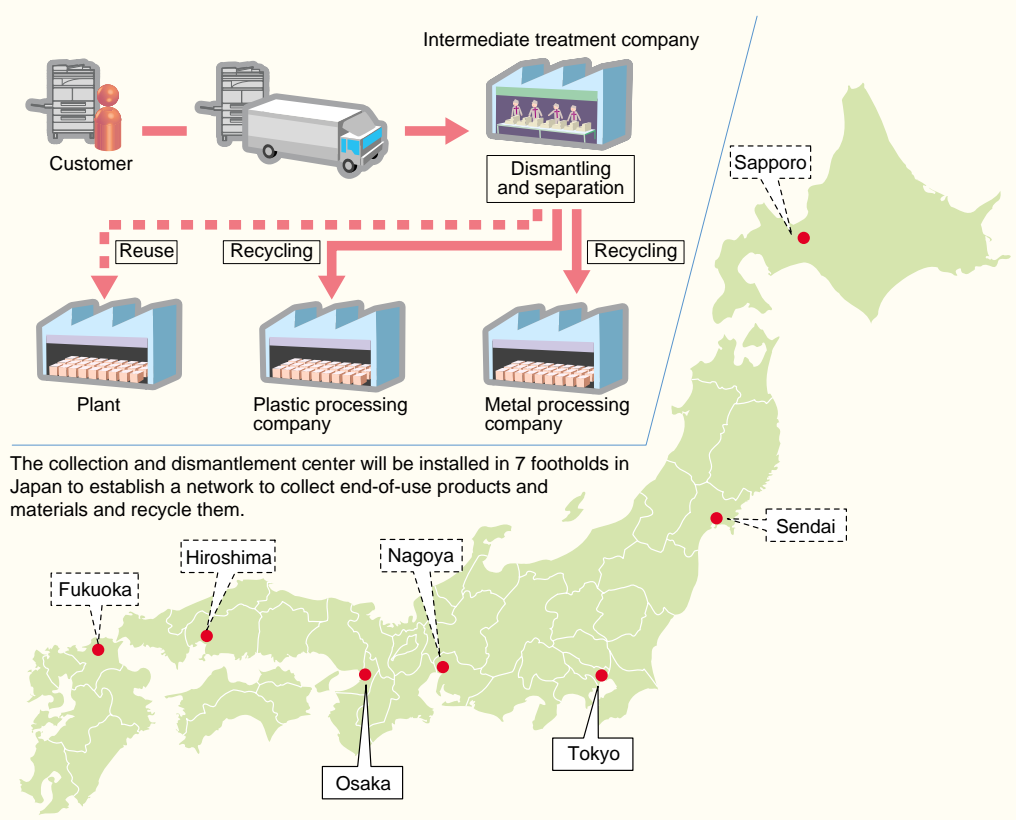
Collection for recycling started in the Tokyo and Kanagawa areas in December 1998 and has been expanded to the Kanto and Kansai areas. Toshiba TEC aims to establish a nationwide collection and recycling system by the end of 2001.

The dismantling center for recycling sorts plastics and metals, mainly for material recycling, through manual dismantling. Toshiba TEC actively implements the reusing of parts, and considers it to be one of the most effective means for utilizing resources and establishing a recycling society.



Manual dismantling

Collection and recycling network plan



The collection and dismantlement center will be installed in 7 footholds in Japan to establish a network to collect end-of-use products and materials and recycle them.

Green procurement

In creating environmentally conscious products, it is important to use materials and parts that have less environmental impacts. Therefore, Toshiba TEC is implementing Green Procurement for creating products that have less environmental impacts.

Green-procured items are classified into three categories: items for use in products, items for use during production activities, and office supplies and stationery.

● Items for use in products

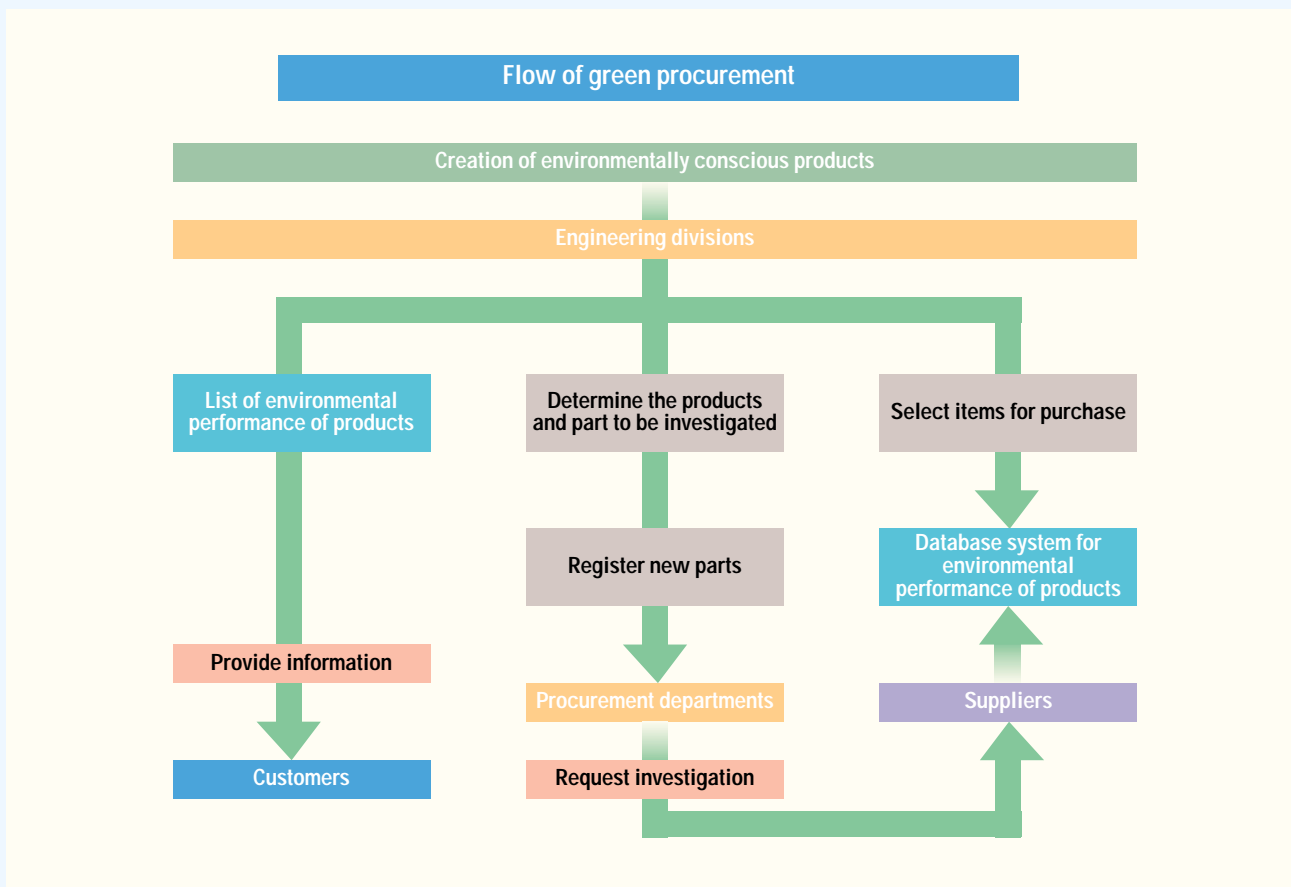
Toshiba TEC will create Green Procurement Guidelines, which specify criteria concerning reduction of environmental impacts of procurement items, and select procurement items according to the guidelines. From November 2000, Toshiba TEC will hold conventions for its suppliers to promote green procurement jointly.

● Items for use during production activities

For procurement items, such as tools and fixtures, paints, cleansing solution, thinner, and adhesive, Toshiba TEC has been making assessment before procurement of a new material. In addition to the assessment system, the Green Procurement Guidelines will be used for evaluation.

● Office supplies and stationery

Selection of environmentally conscious office supplies and stationery, office equipment, and furniture is important for raising the awareness of employees regarding the environment. Toshiba TEC will expand procurement of Eco mark certified products and Energy Star registered office equipment that are recommendable for their environmental considerations.



Subsidiary Companies and Cooperating Companies

Subsidiary companies and cooperating companies

Each business site of Toshiba TEC is providing subsidiary companies and cooperating companies with support regarding environmental protection.

● Domestic subsidiary companies

Personnel in charge of environment protection are often sent from the procurement and production departments of each business site to the domestic subsidiary companies for providing supports on a daily basis. To achieve further cooperation regarding environmental protection, Toshiba TEC requests them to participate in lectures regarding the environment, training courses for environmental auditors, and environmental engineering exhibitions that Toshiba TEC sponsors. Also Toshiba TEC will provide them with assistance for the environmental audit through the internal environmental auditors every other year.



System auditing



Auditing in the field

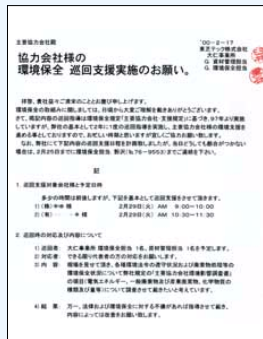


Environmental audit records

● Domestic cooperating companies

Toshiba TEC teams together personnel in charge of environmental protection from the environmental protection department, the procurement department, and the production department, to provide assistance for environmental inspections to the domestic cooperating companies, on a yearly or biennial basis.

To the companies that aim to be accredited with ISO 14001, Toshiba TEC sends its auditors to offer accreditation know-how and support in documentation.



Notification of inspection regarding environmental protection



Report of assistance provided to cooperating companies

● Industrial waste contractors

The personnel in charge of environmental protection visit industrial waste contractors (intermediate treatment and final disposal) every year, according to a planned schedule, focusing on their disposal situations, manifest system (for slip management), and water quality measurement.



Personnel in charge of environmental protection inspecting an intermediate treatment company



Report by personnel in charge of environmental protection about the final processing contractor



Overseas Collection and Recycling of Copiers

Since a remarkable percentage of the copiers is exported, the recycle program for the copiers is developed in Europe and the United State to promote global activities regarding environmental considerations.

In Europe, TOSHIBA EUROPE GMBH is playing a central role in establishing a system to collect consumables and end-of-use parts of the copiers and recycle them. Collected consumables include photo conductors that are the hearts of copiers, toner containers, fixing rollers and blades.



TOSHIBA EUROPE GMBH

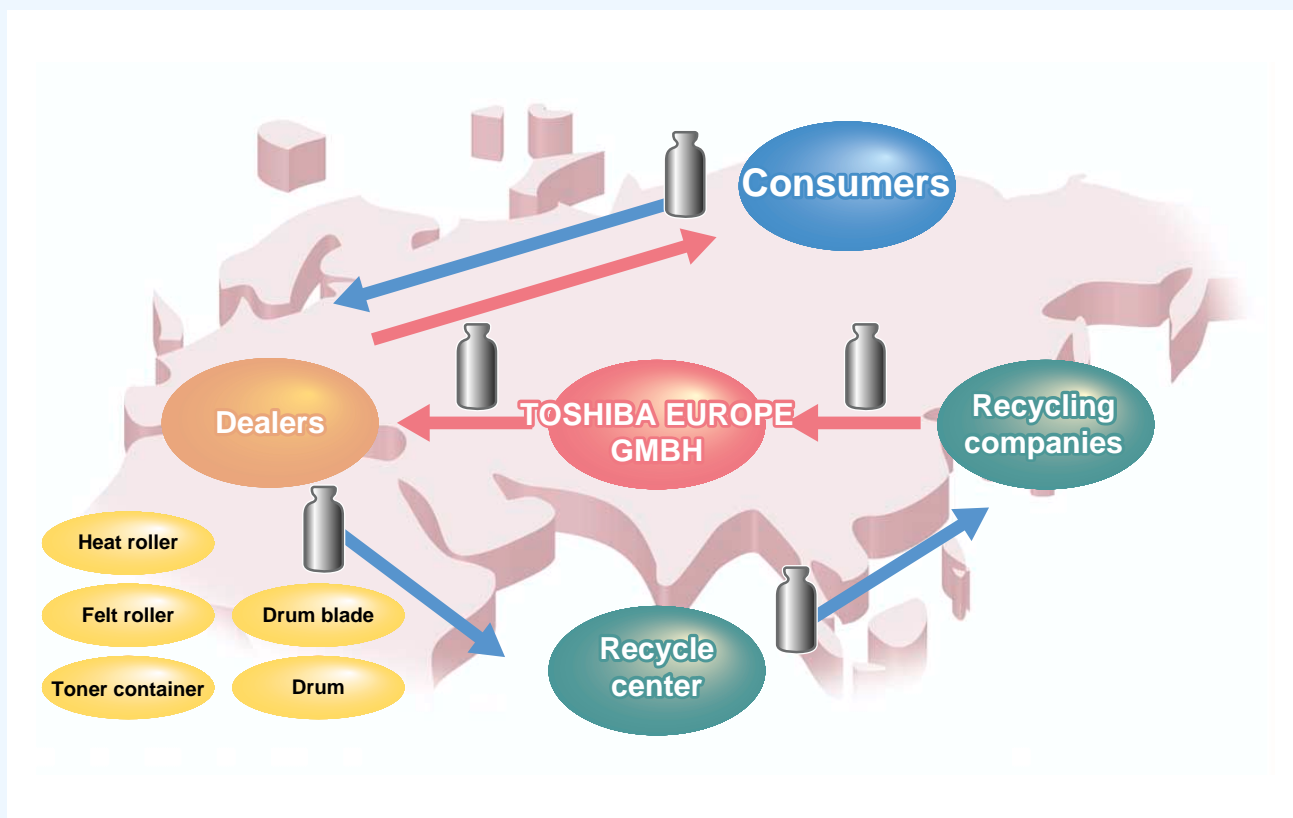
The collecting foothold is located in Germany but the consumables are collected not only from Germany but also from more than 10 European countries such as Sweden, Denmark and Poland.

As an example, red and yellow recycle boxes are prepared in Germany to sort and collect consumables and end-of-use parts.



Recycle box

Collected consumables and parts are returned to TOSHIBA TEC EUROPE IMAGING SYSTEMS S.A. in France or manufacturers that Toshiba TEC entrusts to manufacture the consumables and parts, for material recycling.



The divisions in charge of copier sales and toner production of TOSHIBA AMERICA BUSINESS SOLUTIONS, INC. have been implementing a recycle program for toner containers used in the copier since February 1996.

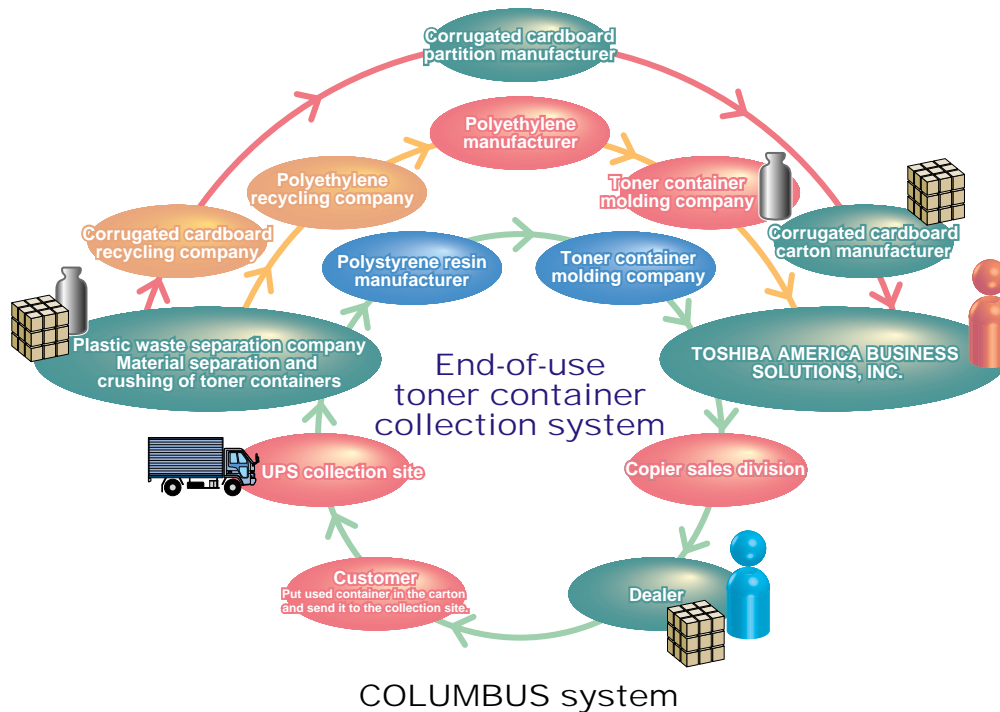
This program is called COLUMBUS, which comes from COLlection of Used containers in the Market which Belongs to the US. The COLUMBUS system was established to achieve a closed system recycling that collects empty toner containers directly from customers or via dealers and recycles them in the exclusive recycle center. The toner package for the Toshiba copiers contains the United Parcel Service (UPS) label on which the address of the designated collection site is printed. The dealer or customer has only to put the used toner container in the original carton, attach the label on the carton, and then send it.

The used toner containers sent to the collection site are delivered to the recycle center where materials are separated and crushed into pellets. Pelletized plastics are reused as Toshiba TEC's toner container via the resin manufacturer and the toner container molder.

Toshiba TEC is committed to improving the recycling process. For example, it adopts the same plastic material for the toner container and the toner container label so that it is not necessary to remove the label from the container before crushing. In addition, indication is made, not on the label but on the container, so that the label is unnecessary. These commitments contribute to the reduction of environmental impacts.



TOSHIBA AMERICA BUSINESS SOLUTIONS, INC.



Relationship with customers and local communities

Toshiba TEC is committed to preserving the environment through various activities, maintaining good relationships with its customers and local communities.

● Association with local communities

For the purpose of deepening the association with the local communities, Toshiba TEC holds various events that involve not only families of the employees, but also the neighborhoods.



Summer festival (Ohito Business Center)

● Social service activities in local areas

As a part of voluntary activities, the Toshiba TEC employees develop social activities that please local communities. For example, they clean up local areas, visit social welfare facilities, and repair local facilities.



Weeding in a social welfare facility (Mishima Works)



Cleaning up the Genpeigawa River reported in newspaper (Mishima Works)



Removing illegally dumped garbage in cooperation with the municipality (Hadano)

● Social contribution fund

The employees save a part of their salaries and bonuses for the Social Contribution Fund, which is donated, together with a corporate contribution, to local social welfare and environmental protection organizations on the anniversary of the corporate founding every year.



Donation reported in newspaper



Letter of thanks from the Mayor of Mishima

● **Support in environmental education**

As a part of environmental education for local elementary and junior high school pupils, kenaf cultivation is implemented to prevent forest destruction.

The Hadano Plant has a good relationship with the schools by presenting the mixers that are used in making paper from kenaf.



Thank-you note written on kenaf paper



Kami Elementary School pupils make a tour of the Hadano Plant.



Letter of thanks from the Principal of Kami Elementary School

● **Commended by Kanagawa prefecture administration center**

For a long time, many employees have been participating in cleaning activities, near the plant or sponsored by the city of Hadano. The Hadano Plant was commended for its efforts by the General Manager of Shonan Administration Center.



Award ceremony

● **Acceptance of site visit and offering of supports**

Each business site enthusiastically accepts personnel in charge of environmental preservation, consumers, and students who want to visit and observe the site. This was helpful to personnel from the local government who studied the Toshiba TEC's waste separation and collection method, and employed the same method in their town's waste collection.

With regard to accreditation with ISO 14001, Toshiba TEC provides information about the creation and management of documents, environmental education, environmental audit, and field management, using Toshiba TEC's expertise to help not only Toshiba TEC's suppliers and cooperating companies, but also neighboring companies and organizations.

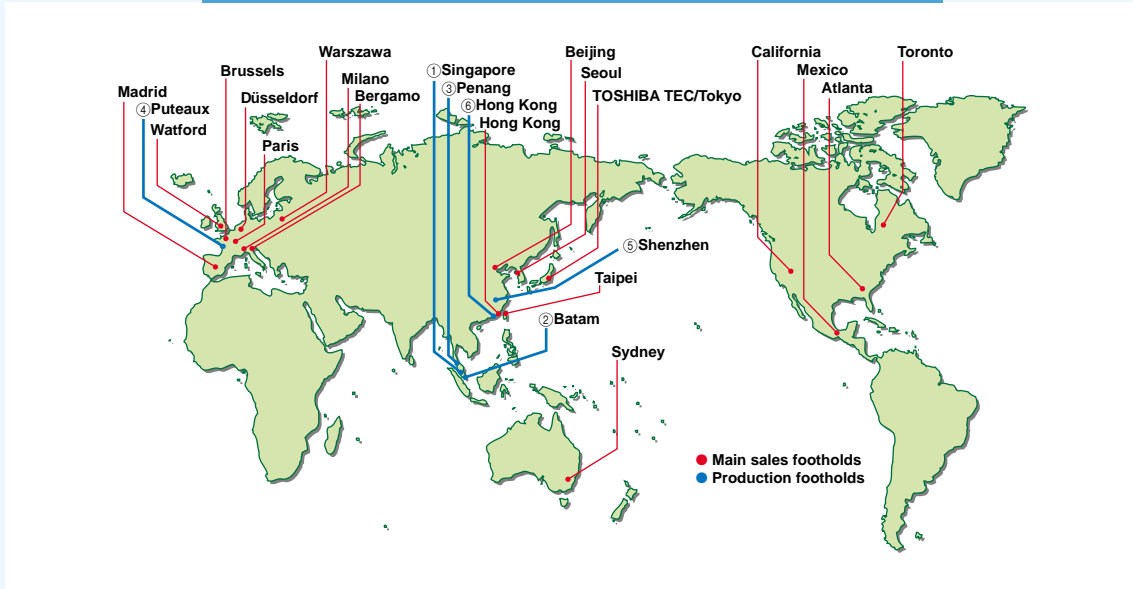


Site tour by the Kanagawa River water quality preservation conference



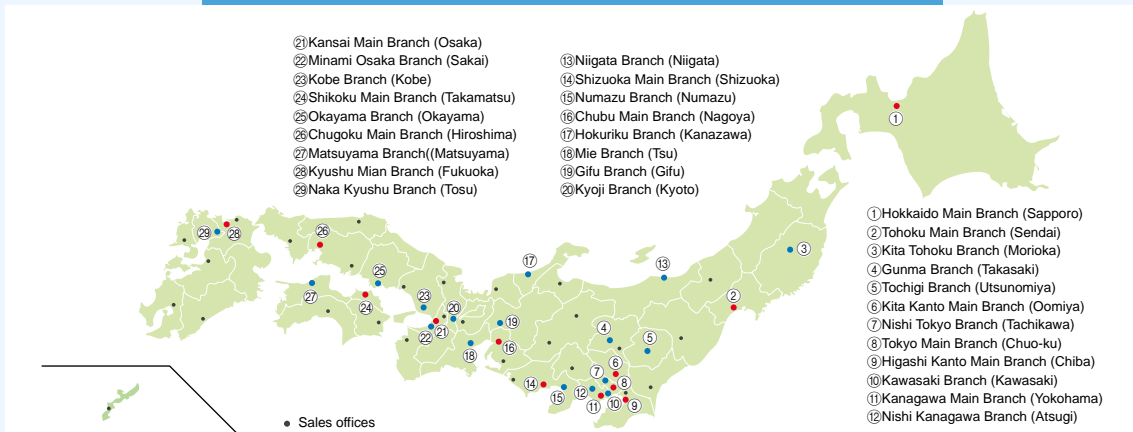
Helping a neighboring company be accredited with ISO 14001 (site trip)

Overseas network

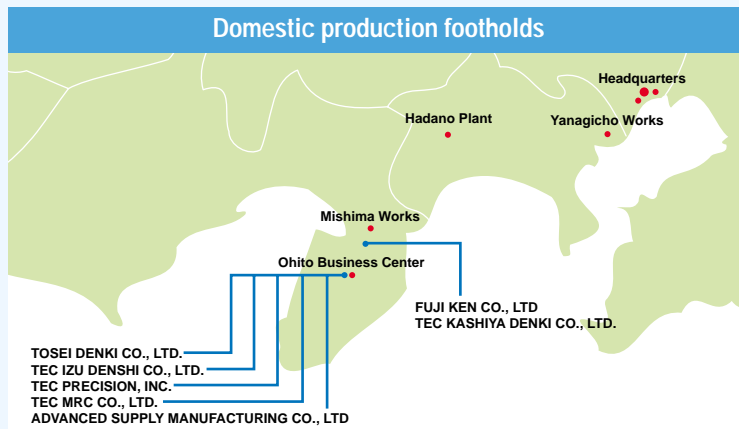


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|---|-------------|
| ①TEC SINGAPORE ELECTRONICS PTE.LTD | [Singapore] |
| ②PT TEC INDONESIA | [Indonesia] |
| ③TIM ELECTRONICS SDN. BHD | [Malaysia] |
| ④TOSHIBA TEC EUROPE IMAGING SYSTEM S.A | [France] |
| ⑤TOSHIBA COPYING MACHINE (Shenzhen) CO.,LTD | [China] |
| ⑥TOSHIBA TEC (H.K.) LOGISTICS & PROCUREMENT LIMITED | [China] |

Sales offices



Domestic production footholds



We welcome your comments and inquiries.

This environmental report discloses environmental information regarding our business activities in fiscal 1999. To improve the quality of our future environmental reports, we would like your comments and inquiries. Your comments will help us enhance our environmental reports.

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