

Hitachi Kokusai Electric Inc. 3-14-20, Higashi-Nakano, Nakano-ku, Tokyo, Japan

Contact:

Environment Center, Production Engineering Division TEL: 813-3365-9186 FAX: 813-3965-9268 http://www.h-kokusai.com/





Report on the Environment 2003

Pass on the precious earth to the next generation Let's protect our beautiful environment

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Message from the President

With the aim of fitting into the recycling-oriented society, Hitachi Kokusai Electric was certified with ISO14001 for all of its work places. Also, by establishing the Hitachi Kokusai Electric Global Environmental Charter in March 2001 stating that the preservation of the natural environment is one of our highest priorities, we have engaged in the efforts to reduce the load on the global environment.

At present, we are working hard throughout the company to advance our environment-friendly business to fulfill our social responsibilities.

In 2002, we promoted a wide range of environmental activities under the three key themes of Ecological Products, Ecological Factory, and Environment Management.

Regarding the Ecological Products (promotion of environment-friendly products), we decided that all future models will be developed as resource-saving and energy-saving products. We are advancing the development of these products, aiming at a target sales ratio of 60% for fiscal 2003, so that we can offer our customers environment-friendly products. We have already reached the target ratio of 35% for fiscal 2002.

We are also making efforts to completely abolish lead solder used for electrical connection within fiscal 2003. For the Ecological Factory, we are promoting the prevention of global warming (by reducing carbon dioxide emissions), waste reduction, and management of chemicals.

For the prevention of global warming, we are working to reduce the primary unit of carbon dioxide emission to 25% below the 1990 levels by fiscal 2010. However, the factories that consume a large amount of energy will need to make increased efforts. We will keep working hard on this issue as one of our most important tasks.

Regarding Environment Management, we will carry forward our combined eco-friendly business that involves our affiliated companies and strive to create a recycling-oriented society throughout the entire group. As a corporate citizen, we are also cooperating with local governments and organizations in various social programs, including several natural environment conservation activities, to achieve harmonious coexistence with local communities.

It is our sincere wish that this report will lead our stakeholders to a deeper understanding of the policies and activities of the Hitachi Kokusai Electric group regarding environmental preservation. Any suggestions you may have regarding these policies and activities would be highly appreciated.

June 2003

Zndo

Dr. Makoto Endo Chairman Of The Board





Corporate profile (as of March 31, 2003)

- Company name
- Address
- Capital Sales

Business areas

- 129,300 million yen (consolidated) No. of employees
 - 5.248 (consolidated)

10.058 million ven

and semiconductor manufacturing systems

Hitachi Kokusai Electric Inc.

History



Scope of business

	Classification	
communications i information systems	Wireless communication systems	Station equipment for digital cellular digital wireless systems, in-house of wireless communications systems, and public communications, disas wireless systems for public utilities communications systems, shipboar systems for airport use, GPS/AVM w and optical communication systems
and	Information systems	Stock-price display boards, assorted multimedia information display syste systems, hotel Internet systems, and
eroaucasury and video systems	Broadcasting systems	Digital TV cameras; non-linear trans automatic tracking digital microw equipment; FM-ST link; high-power and receiving equipment; TV and ra for TV reception; community antenna for handling radio wave failures and
	Image processing and monitoring systems	Cameras and monitors for industrial verification equipment, wide-area n monitoring systems, security monito systems, and displays for simulators
nanufacturing systems	Semiconductor manufacturing equipment	Vertical oxidation diffusion/LPCVD s oxidation/LPCVD systems, silicon ep liquid crystal manufacturing, ashing tube controllers



3-14-20, Higashi-Nakano, Nakano-ku, Tokyo, Japan-Headquarters

Communications and information systems, broadcasting and video systems,

Main products

and car telephones, paging systems, wireless access systems, commercia ommercial digital wireless communications systems. local area amplification vireless communications antennas, assorted equipment for governmental ter prevention information network systems, telemeter systems, digital intelligent transport systems (ITS), air traffic control equipment, aircraft d communications systems, train communications systems, MCA wireless ireless systems, assorted wireless terminals, wireless IP connecting device.

display boards and displays, securities and financial client server systems ems non-contact IC card reader and writer data collection and distribution data warehouse systems

smission system; digital TV relay van; mobile microwave receiving base and ave relay equipment; TV broadcasting equipment; radio broadcasting broadcasting systems; relay broadcasting equipment; satellite broadcasting adio broadcasting antennas, amplifiers, distributors, and assorted equipment a TV system; cable TV systems; in-house cable TV systems; and equipment other difficulties

applications, image recognition systems, medical imaging systems, arrival onitoring systems (for roads, rivers, and railroad networks), environment ing systems, broadband LAN usage monitoring systems, large-scale image

vstems, load lock vertical oxidation diffusion/LPCVD systems, single-wafer vitaxial single crystal growth systems, single-wafer plasma CVD systems for equipment, RTP equipment, block control systems, and high-performance

<Target period> Fiscal 2002 (Environmental activities from April 2002 to March 2003) <Object business institutions> The factories at Chitose, Hamura, Koganei, Omiya, Toyama and Yagi Memorial Information Communications System Laboratory

Environmental Activities

Hitachi Kokusai Electric Global Environmental Charter

Basic Philosophy

Hitachi Kokusai Electric will enhance "Respect for humans" and the "Pioneer spirit" to deeply recognize that we are members of society, devote ourselves to fair and transparent corporate activities, and strive to preserve the global environment and improve the local living environment.

Guidelines for Action

1. Fulfillment of Our Social Obligation

Harmony with the environment is one of our highest priorities. We are committed to solving global environmental problems because we realize they are important problems common to all of humanity.

2. Reduction of Environmental Load

The environmental load caused by research, development, production, distribution, use, and disposal will be reduced to help build a resource recycling society.

3. Complying with Laws and Regulations

International, national, and local environment regulations will be obeyed, and a voluntary control standard will be set up to help prevent environmental pollution and improve the environment management level.

4. Linkage with Local Communities

Efforts will be made to preserve the global environment, improve the local environment, and give employees a comprehensive environmental education to enhance awareness of the environment.

5. Preparation of Intracompany System

An executive in charge will be appointed to prepare an environment management organization system and help promote continuous activities for the environment, both internationally and nationally.

Drawn up in March 2001

I Plan for Fiscal 2002

			OTarg	get reached	ement required
	Main item	Mid-term to long-term plan	Fiscal 2002 target	Result	Own evaluation
oducts	Environment-friendly products	Percentage of environment-friendly products: 60% in fiscal 2003	Implementation of design assessment evaluation table Percentage of sales 35% or greater	Creation at each factory: 35% finished	0
Ecological pro	Lead-free solder	Complete abolishment of lead solder in fiscal 2003	Evaluation and selection of lead-free solder and application to development products	Selection of Sn-Ag-Cu solder Application to 10 types of products	0
	Green procurement	Investigation of customers Investigation of chemicals	Investigation of environmental safety of main customers	Percentage of responses: 80%	
	Global warming prevention (energy conservation)	Reduction of carbon dioxide emissions From 1990 levels 20% reduction by fiscal 2005 25% reduction by fiscal 2010	Reduction carbon dioxide emissions 6% reduction from the 2001 levels	3% increase from the 2001 levels due to a reduction in production	
Ecological factory	Chemical substance management	From 2001 levels Chemicals to be reduced 30% reduction by fiscal 2005 Prohibited chemicals Complete abolishment by fiscal 2005	Preparation of chemical usage list (amount of chemicals used at each factory)	Investigation of all chemicals used	0
	Waste reduction	85% reduction from 1998 levels by fiscal 2005. Zero emission by fiscal 2010.	78% reduction from 1998 levels	79% reduction from 1998 levels	0
Environment management	Environment Auditing	Implementation of environmental auditing (including factories and affiliated companies)	Auditing by Hitachi Ltd. Environment Division investigation done by Hitachi Kokusai Electric Inc. Environment Management Department ISO14001 periodic inspection	3 factories monitored 2 factories investigated	0

2Environment Management System

The environment management system used to promote the environmental protection activities of Hitachi Kokusai Electric includes the company-wide environment management organization responsible to the executive in charge of the environment and the factory management organization established at each factory. The role of the company-wide environment management organization, in which the environment promotion center acts as an executive office, is to control and promote the environmental operations of the

entire company. The environmental management operational committee discusses and decides the plan for the mid-term to longterm environment activities, yearly objectives, and important problems and implements the decisions at each factory. In the environmental management operational committee, the executive in charge of the environment acts as the committee leader under the direction of the president and the head of each factory attends the meeting. In addition, the environment promotion committee, which is held twice yearly, reports the results of the environment activities of each factory, exchanges information, implements uniform development, and resolves problems.



3Details of Environmental Activities in Fiscal 2002

	Result of fiscal 2002 environmental activities	Partic
lpril	Holding of the environmental management operational committee Notification of the fiscal 2002 environment activities plan	President, executive in cha environment, factory head and environment promotic
Vlay	Holding of the first lead-free subcommittee meeting ●Technology exchange meeting between each factory	Lead-free promotion leade and affiliated companies, a environment promotion ce
June	Environmental auditing by Hitachi Ltd./Environment Division ●Toyama, Koganei, and Omiya factories	Factory heads, environmer representatives, department and persons in charge of t
ıgust	Holding of the environment promotion committee (first term) ●Report on the results of environment activities for fiscal 2001 for each factory and plan of environment activities for fiscal 2002	President, executive in cha environment, factory head and environment promotic
	In-house environmental auditing ●Environmental auditing of the Omiya factory	Factory heads, department persons in charge of the el and environment promotic
tember	Holding of the second lead-free subcommittee meeting	Lead-free promotion leade affiliated companies, and e
ember	Fourth environment-friendly planning examples announcement meeting ●Five examples in each factory	President, executive in cha environment, department I planning, and environment
nuary	In-house environmental auditing ●Environmental auditing of the Toyama factory	President, executive in cha environment, factory head and environment promotic
ruary	Holding of the environment promotion committee (last term) • Report on the results of environment activities for fiscal 2002 for each factory and plan of environment activities for fiscal 2003	President, executive in cha environment, factory head and environment promotic
arch	Meeting of the persons in charge of the environment	Persons in charge of the e and environment promotion

4Awarded the ISO14001 Certificate

In fiscal 1999, as the platform for promoting environment management, the environment management system was awarded the ISO14001 certificate for all manufacturing sites. In addition, this ISO14001 certification is expected to be extended to all manufacturing sites of the main domestic affiliated companies in fiscal 2003.

	Certified site	Certification organization	Date	Scope of business
In-house	Toyama factory Koganei works Hamura works Omiya works Chitose works	DET NORSKE VERITAS Japan Environment Certification Organization (Inc.) Japan Environment Certification Organization (Inc.) Japan Quality Assurance Certification Organization (Group) Japan Environment Certification Organization (Inc.)	1996.10 1997.6 1998.2 1998.12 1999.4	Semiconductor manufacturing systems Broadcast, video, and monitoring systems Information and wireless communication systems Cable TV systems and antennas Wireless communication systems
Main domestic affiliated companies	KOKUSAI DENKI ENGINEERING Co., Ltd. Kokusai Electric Semiconductor Service Inc. Hitachi Kokusai Electric Services Inc. KOKUSAI ELECTRIC ALPHA Co., Ltd.	Japan Quality Assurance Certification Organization (Group) Japan Efficiency Association (Corp.) Japan Efficiency Association (Corp.) DET NORSKE VERITAS	2000. 7 2001. 3 2002.10 2003. 5 (Scheduled)	 Wireless communications equipment, furnaces, electrical equipment, mobile radio equipment, microcomputer application devices, and computer peripherals Semiconductor manufacturing equipment maintenance and installation Hitachi Kokusai Electric products maintenance and service (excluding semiconductor manufacturing equipment) Development, manufacture, asles of information systems equipment, semiconductor manufacturing equipment, and ultrasonic application devices

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Lead-free subcommittee meeting



Hitachi Environmental auditing



Environment presentation

ogical Products

Examples of Environment-Friendly Products

Ground-based digital broadcasting equipment (water-cooled)

This equipment is designed for the digital terrestrial broadcasting that will be initiated in fiscal 2003. With the aim of "being kind to the Earth," a low-power water-cooling system has been developed to achieve a compact, space saving, and energy saving design.

Item No.	. Environment item		Environment item Conventional equipment (analog)		Effect		
1	Functional improvement		SDTV (1 channel)	HDTV (1 channel)			
2	Low power consumption		Low power consumption 30 kW 8 kW		75% reduction		
3	Environmental improvement (noise)		Environmental improvement (noise)		65 dB	45 dB	20 dB reduction
4	Resource saving	Weight	4,000 kg	1,500 kg	62.5% reduction		
		Floor area	7.5 m ²	4.3 m ²	42.5% reduction		



Electric-powered pan head network camera (HC-30)

With its built-in LAN interface and Web server functions, this electric-powered pan head network camera can be operated remotely using an external personal computer to control the camera's pan, tilt, zoom, and other functions. The camera, camera case, lens, encoder, and pan-head unit that have conventionally been provided as separate units are integrated to produce a product that is small and lightweight and has a low power consumption.

ltem No.	Environment item Low power consumption		Environment item Conventional equipment Newly developed equipment		Newly developed equipment	Effect
1			80 W	17 W	79% reduction	
0	Small and lightweight	Volume	18.3 liters	4.4 liters	76% reduction	
2		Weight	18 kg	8 kg	56% reduction	



BS110°CS receiver antenna (analog aperture:75 cm)

To meet the start of BS110°CS digital broadcasting, this receiver antenna for community housing has an increased bandwidth. Taking the environment into consideration, we have managed to reduce the weight and cost of this antenna by reviewing the quality of its materials.

Item No.	Environment item		Conventional equipment	Newly developed equipment	Effect
1	Performance improvement (wide band)		Receiving frequency 11.7 to 12.0 GHz	Wide band 11.7 to 12.75 GHz	350%
2	Low power consumption		4 W	1.5 W	62.5% reduction
3	Environment improvement (change of component materials)		GFRP with aluminum mesh	Aluminum materials	40% improvement of recyclable efficiency
4	Resource saving	Weight	12 kg	7.1 kg	40.8% reduction
		Volume	757 cm ³	639 cm ³	15.6% reduction



Cable TV booster

This high-performance cable TV booster compensates for reductions in household signal levels that occur due to multiple signal distributions and long cable routes. Our patented "Hizuma-naizer" (Distortion Eliminator) circuit created as original technology enables high output, low power consumption, and low-distortion characteristics.

Item No.	. Environment item		Conventional equipment	Newly developed equipment	Effect
1	Performance improvement		Upward output level 100 dB µ	Upward output level 114 dB µ	-
2	Low power consumption		23 W	20 W	13% reduction
3	Resource saving	Weight	2.2 kg	1.8 kg	18% reduction
		Volume	2.5 liters	2.1 liters	16% reduction

Simple commercial cellular telephone

This simple commercial cellular telephone offers a thin, compact, and lightweight design achieved through the use of magnesium die casts and energy conservation achieved by using a low-voltage power supply and low power consumption circuits.

Item No.	Envir	onment item	Conventional equipment	Newly developed equipment	Effect
1	Compact	Volume	196 ml	135 ml	31% reduction
		Weight (including antenna)	368 g	192 g	48% reduction
	Transmitting		14 W	13.3 W	5% reduction
2	Energy conservat	Receiving	1.7 W	1.4 W	18% reduction
		ion Standby	0.4 W	0.3 W	25% reduction

Ultra-small module for packet communication (PM1-S)

This product integrates packet communication and data communication adapter functions of cellular telephones to provide mobile solutions. Although it is small, lightweight, and has a low current consumption, this product incorporates a full range of packet communication functions.

Item No.	Environment item		Conventional equipment	Newly developed equipment	Effect
1	Function improvement		PDC-P support	PDC-PDoPa	
2	Low power consumption		3 W (during communication)	2 W (during communication)	62.5% reduction
2	Resource saving	Weight	110 g approximately	30 g approximately	40.8% reduction
3		Volume	85 cm ³ approximately	6 cm ³ approximately	15.6% reduction

300 mm vertical oxidation diffusion/CVD system ZESTONE-III (C)

Expanding on its technology of vertical diffusion systems capable of handling wafers less than 200 mm (8 inch), which already boasts a significant delivery record, Hitachi Kokusai Electric has developed the 300 mm (12 inch) vertical oxidation diffusion/CVD system. Compared with conventional products, the compact and lightweight design of the ZESTONE-III has enabled the product volume and occupied floor space to be reduced by up to 80%. Moreover, because the design has been standardized to facilitate upgrading, the customer will be able to use this product for a very long time.

	Item No.	Environment item		Conventional equipment (DD/DJ-1203V)	Newly developed equipment (DD/DJ-1223V)	Effect
	1 0	Resource saving	Weight	5190 kg	4982 kg 4% redu	
	'		Volume	1250(W)×3060(D)×3410(H)	1100(W)×2790(D)×3410(H)	20% reduction
İ	0	Low power consumption	Operating	9.659 kW	9.450 kW	2% reduction
	2		Standby	6.960 kW	5.100 kW	27% reduction

CVD: Chemical Vapor Deposition









Ecological Factory

Global warming prevention (energy conservation)

We have set ourselves the goal of reducing our primary unit of carbon dioxide emission by 25% from the 1990 levels by fiscal 2010 and have also taken various energy-saving measures. Moreover, to help achieve the Kyoto-Protocol objective of reducing greenhouse gas emissions in Japan by 6%, we have additionally set ourselves the goals of reducing our primary unit of carbon dioxide emission by 3% from the 1990 levels by fiscal 2005 and by 7% by fiscal 2010.

By installing energy-saving equipment and executing complete energy management, we reduced our primary unit of carbon dioxide emission in fiscal 2002 by 13% from the previous year's levels. However, the index of the primary unit has deteriorated by 3% because of a reduction in production.

<Major energy-saving measures taken in fiscal 2002>

external air-conditioning equipment

1. Upgrading of transformers

1. Application of ESCO 2. Use of inverters in cooling pumps

<Energy-saving measures to be taken in the future>

.....

- 2. Use of more efficient lighting fixtures 3. Installation of water sprayers on
- and air blowers
- 3. Fundamental improvements in production

Trends in CO₂ emission and primary unit index



Waste reduction

We have set ourselves the goal of reducing our final landfill amount by 95% from the 1991 levels by fiscal 2010 and are continuing our efforts to reduce waste to achieve our goal of zero emissions. In addition, our continuing efforts in separating and collecting waste and promoting recycling have enabled us to reduce our final landfill amount in fiscal 2002 by 89% from the 1991 levels. To ultimately reduce our final landfill amount to zero, in addition to recycling waste, we have carefully considered ways of reducing its production. With this in mind, we are making efforts to improve the yield rates of production lines and curtail the production of packaging waste.

<Major waste reduction measures taken in fiscal 2002> </Waste reduction measures to be taken in the future>

- 1. Improvement of coagulant processing method to reduce sludge
- 2. Thermal recycling (RDF) of waste plastics 2. Thermal recycling (RDF) of waste plastics 3. Improvement in the yield rates
- 3. Recycling of waste lighting fixtures
- and dry-cell batteries
- of production lines

1. Recycling of nitric acid fluoride waste liquid

Trends in final landfill amount



Chemical substance management

According to the PRTR* Act enacted into law in July 1999, starting from April 2002, all companies are required to report the amounts of chemicals they release into the environment. Therefore, it is now important for companies to strictly control chemicals on a daily basis and exercise strong risk management in their business operations.

The PRTR Act stipulates that all companies that used 5 tons or more of any of the 354 first-category chemicals in fiscal 2002 must report the fact to the appropriate regulating authority. Because of our commitment to protecting the environment, we have reduced to below 5 tons or completely eliminated our consumption of these chemicals, and as a result we did not need to make such a report for fiscal 2002.

Chemical	Handled amount	Consumed amount	Recycled amount	Transferred amount (waste)	Released amount (atmosphere and water)
Lead solder	780	278	460	42	0
Xylene	679	504	0	20	155
Hydrogen fluoride	660	0	0	630	30
Toluene	183	3	0	90	90
Dichloromethane	0	0	0	0	0

At the end of fiscal 2001, we replaced dichloromethane, which is designated as a hazardous air pollutant, at all of our factories with an alternative and completely abolished its use in fiscal 2002.

Water pollution prevention

We have not only complied with the laws and ordinances regulating water discharge from factories to public water areas but have also set even stricter voluntary control standards for all of our factories to further protect water quality. There has not been a single violation of these voluntary control standards.

Air pollution prevention

To prevent air pollution, we have set voluntary control standards that are much strciter than the regulations stipulated by law for atmospheric release of dust, sulfur oxides (SOX), and nitrogen oxides (NOX). As with our voluntary water pollution control standards, there has not been a single violation of our voluntary air pollution control standards.

Prevention of noise, vibration, and odors

The levels of noise and vibration at our factories are below the standard limits set by the pertinent laws and ordinances. In cases where there is no public regulation regarding orders, we have voluntarily set our own control standards to protect local residents.

Lead-free solder

From fiscal 2000, we have successively introduced equipment that does not require the use of lead and promoted the development of technology for use in newly developed products. Based on the results of using this technology in some of our companies, we worked to extend this technology to all of our in-house groups and affiliated companies during fiscal 2002. In fiscal 2003, this new technology will be employed in all of our newly developed products.

* PRTR: Pollutant Release and Transfer Register

Unit: kg/vear

Invironment Management Communication with Local Communities

GREEN 21 operation (Ver. 2)



Evaluation items (53 items in 8 categories)

No	Category	Main evaluation item
1	Environment management	Environment management, environment activity planning, and environmental accounting
2	Risk management	Strict observance of laws and ordinances, setting of independent standards, strict observance of independent standards
3	Ecological awareness	General training of employees, specialized training, education, and training of internal monitors
4	Ecological products	Creating environment-friendly products, and planning and achieving green procurement
5	Global warming prevention	Achieving energy conservation
6	Resource recycling	Reducing waste production and managing chemicals
7	Stakeholder cooperation	Information disclosure, communication activities, and community activities
8	Sustainable business model	System planning, collection of products, recycling, and environmental recovery activities

Result report In fiscal 2002, which is the benchmark year, we reached 436 green points. The ecological products received a low evaluation due to a delay in green procurement, although their environment-friendly design was promoted. We will promote continuous improvement of this and other items.

Environmental accounting

ſ		Itam	Cost (in million yen)		Main content	
		nem	Fiscal 2001	Fiscal 2002	Main content	
		1.Costs within the factory area	134.6	144.3	Costs for maintenance and management of environmental load reduction facilities	
		2.Upstream and downstream costs	0.1	0.3	Costs for green procurement and recycling	
	Cost	3.Management activity costs	137.9	104.8	Personnel expenditures for environment management and	
					maintenance costs for environment management system	
		4.Research and development costs	348.3	447.3	Costs for research, development, and design of products that reduce the	
					Costs for any ironment improvements (a.g. grooping and landscaping)	
		5.Social activity costs	4.1	3.9	PR, and publicity	
		6.Costs related to environmental damage	0	0.2	Environment-related compensation, contributory money, and surcharges	
		Total cost	625.0	700.8		
	Total investment					
			64.6	254.6	Investments for direct environmental load reduction facilities	

Effect

Costs

ts		Itom	Value of effec	t (in million yen)	Main content	
		item	Fiscal 2001	Fiscal 2002	Main content	
	Economic	1.Effect on real income	0.8	0.4	Profit on sale of recycled waste, etc	
	effect	2.Expenditure reduction	1.4	1.9	Power cost reduction due to energy conservation, etc.	
		3.Material cost reduction	59.1	52.0	Resource cost reduction due to resource saving, etc.	
		Total	61.3	54.3		

Result report Compared with fiscal 2001, the total cost in fiscal 2002 increased by 12% due to the development cost of environment-friendly products. On the other hand, the economic effect decreased by 11% because resource saving did not lead to a reduction of resource costs. Nevertheless, we will strive to promote our activities in environmental accounting to achieve greater improvements in the environment.

For harmonious coexistence with local communities, our factories are cooperating with local governments and organizations in various social action programs, including various natural environment conservation activities.

Volunteer activities for environmental education

ONATURE Observation instructors

Employees who are qualified as nature observation instructors by the Nature Conservation Society of Japan are hosting nature hikes and educational campaigns for nature conservation. On these hikes, the instructors guide local people around fields and wild areas so they can learn about the natural environment in which they live.

OLeaders for nature-based youth experience programs

Employees who have completed the training course for the Leaders for Nature-Based Youth Experience Programs held by the Board of Education of Hokkaido and have qualified as leaders are working as instructors in camping schools and other programs in liaison with local boards of education.



Paper recycling activity in cooperation with the Toyama Used-Paper Recycling Circle



Support of traditional local events





Event held at a Jomon-period archeological site where local residents prepared salmon for a feast using stone implements they made from obsidian.



Awarded the first prize at the self-defense fire-fighting team operation competition