

Let's learn how to tackle issues related to nature and environmental conservation at EXPO 2005!

English Edition



Japan Zone

The Japan Zone powerfully reveals the role of Japan in contributing to the global age while at the same time introducing Japanese culture in a comprehensive manner.



Guide to Environmentally Conscious Facilities

- Japan Pavilion Nagakute **A01** Clustered Column from Thinned Wood
- Japan Pavilion Nagakute **A02** Biodegradable Plastic Exterior Wall
- Japan Pavilion Nagakute **A03** External Walls Made from Kokumazasa
- Japan Pavilion Nagakute **A04** Bamboo Cage
- Japan Pavilion Nagakute **A05** Roof Made of Photocatalytic Tiles
- Aichi Pavilion Nagakute **A06** Wind Power Generation (From Chita City)
- Chubu Community for Millennial Symbiosis **A07** Wooden-Plastic Gears
- Nagoya City "Earth Tower" **A08** "Ongu" Driven by the Power of Nature
- Chubu Community for Millennial Symbiosis **A09** "Lignin" - Recycle Technology of Wood Materials
- Nagoya City "Earth Tower" **A10** Reduction of Cooling Load by Photocatalytic Coating, Water Curtain and Mist

Corporate Pavilion Zone A

This area is designed to encourage visitors to experience the wonders and excitement of the latest technology.

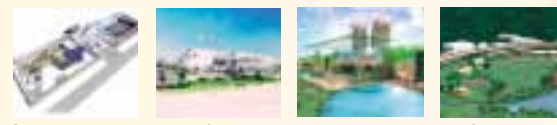


Guide to Environmentally Conscious Facilities

- Wonder Circus-Electric Power Pavilion **D01** Utilization of Driftwood Chips as Roadbed Material
- Wonder Circus-Electric Power Pavilion **D02** Recycling Jellyfish and Shellfish that Drift Ashore at the Intakes of Thermal Power Stations
- Wonder Circus-Electric Power Pavilion **D03** Photovoltaic Power Generation
- Wonder Circus-Electric Power Pavilion **D04** Wind Power Generation
- Mitsubishi Pavilion **D05** Recycled Materials for External Wall
- Mitsubishi Pavilion **D06** Wall Greening
- JR Central Pavilion: Invitation to the Ultimate Surface Transit System **D07** Photocatalytic Tent
- Wonder Circus-Electric Power Pavilion **D08** Dry Mist
- Mitsubishi Pavilion **D09** Recycling Gum Trees for Chairs

Central Zone

The Central Zone is located at the center of the EXPO site, and surrounded by a wide lawn area, carp pond and large facilities, to provide a venue for interaction and exchange between visitors.



Guide to Environmentally Conscious Facilities

- Global House **B01** Fuel Cell Decorated with Ornaments
- EXPO Plaza **B02** Solar Cell and Wind Power Generation
- EXPO Plaza **B03** Bio Lung
- EXPO Plaza **B04** Aggregation of Soil by Glass Cullet

Seto Area

The Seto Area is the origin of EXPO 2005 where visitors can take the time to come in contact with nature and each other. This is a symbol zone that brings to life the theme of "Nature's Wisdom" while paying the utmost consideration to preserving the natural environment.

Guide to Environmentally Conscious Facilities

- Japan Pavilion Seto **H01** Wind Tower (Solar Chimney) and Air-Conditioning System Using Soil Heat
- Seto Gate **H02** Hydrogen Supply Facility
- Seto Terminal **H03** Wood Chip Paving
- Seto Terminal **H04** Village Nature School
- Aichi Pavilion Seto **H05** Reusing Wood Building Materials



Nagakute Area

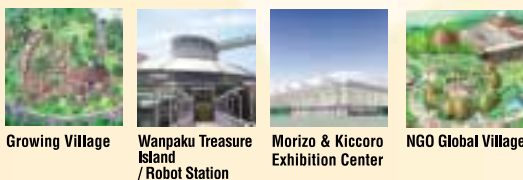


Interactive Fun Zone

This zone provides opportunities for visitors to enjoy learning about various problems regarding the environment and peace through exchanges and play with a wide range of people.

Guide to Environmentally Conscious Facilities

- NGO Global Village **CO1** Building with Bamboo and Tea Trees
- Wanpaku Treasure Island **CO2** Paper Made from Bananas Stems
- NGO Global Village **CO3** Organic Garden



Global Common

The Global Common is composed of six areas, each of which represents its own continent. Pavilions of all sizes present the theme of "EXPO 2005" in their unique way.

Guide to Environmentally Conscious Facilities

- Global Common 5 (NEDO) **G04** New Energy Facility
- Global Common 4 (Rest Stop) **G05** Reducing Cooling Load by Photocatalyst
- Global Common 3 (Italy Pavilion) **G06** Floor Made of Waste Mirror Glass
- Global Common 4 (Portugal Pavilion) **G07** 100% Natural Cork without Tree Trimming
- Global Common 5 (NEDO) **G08** Solar Array Panel
- Global Common 6 (Malaysia Pavilion) **G09** Effective Utilization of Oil Palm Trees to Eliminate Waste
- Global Common 5 (Africa Pavilion / Ghana) **G10** Greening Semiarid Areas by Biomass Boards



Global Loop

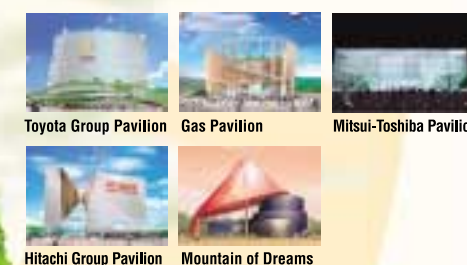
The Global Loop is designed as the main visitor route in the Nagakute Area. Built as a horizontal walkway above the area, it allows visitors to almost circle the site, from one Global Common to another, covering approximately 2.6 km in distance and 21m in width. Its eco-friendly, barrier-free structure with no steps provides a stage where officially participating countries and international organizations gather to achieve "Global Exchange" beyond the barriers of country and culture.

Corporate Pavilion Zone B

This area is designed to encourage visitors to experience the wonders and excitement of the latest technology.

Guide to Environmentally Conscious Facilities

- Mitsui-Toshiba Pavilion **E01** Air-Conditioning Structure by Aqua Wall
- Hitachi Group Pavilion **E02** Double-Sided Solar Panels
- Toyota Group Pavilion **E03** Wind Power Generation
- Gas Pavilion **E04** Roof Greening

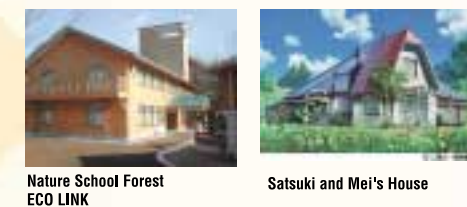


Forest Experience Zone

"Nature's Wisdom" and the intimate relationship between nature and humanity are kept as much as possible in its natural form, allowing visitors to experience the wonders of nature.

Guide to Environmentally Conscious Facilities

- Trail **FO1** Wood Chip Paving
- Forest Visitor Center **FO2** ECO LINK by Ministry of the Environment
- FO3** Nature School Forest
- FO4** Reducing Ambient Temperature by Mist



Guide to Environmentally Conscious Facilities

- Global Loop **G01** Global Loop Base Materials
- Global Loop **G02** Benches Made from Thinned Wood
- Global Loop **G03** Dry Mist from Tents

This ECO MAP has been created with support from advertisement/promotion of public lottery.

Profits from Public Lotteries Contribute to Urban Development.

Japan Lottery Association Supports the 2005 World Exposition, Aichi. Duration: 25 March ▶ 25 September, 2005 (total of 185 days)

The following environmental considerations were taken into account in the creation of this pamphlet. Editing, Prepress and Platemaking: Photocomposing, camera-ready proofs, and typesetting during editing, prepress, and platemaking done digitally. After DTP (Desk Top Publishing), the information was directly transferred to aluminum plates (printing plates) using CTP (Computer To Plate) technology. By doing this, we avoided the bromines, paper, film, the developer and fixer used for the film, all used for conventional typesetting. This resulted in a printing process with a lower environmental impact. Printing: Waterless printing which uses no dampening solution was employed. The isopropyl alcohol used in dampening solutions used in water-based printing was not used. In addition, recycled paper was used for environmental reasons. The environment is a consideration even in the materials and technology involved - namely paper, ink, and printing.

Waterless Printing
This is a method of bringing the ink into a dampening solution. Because special absorbent rollers are used in the modified waterless printing process, even if the ink is applied to the printing plate, the ink does not reach the printed area, and no dampening solution is required. On the other hand, in water-based printing, the ink is applied to the printing plate, and the ink is transferred to the paper. This process requires a large amount of water. However, the isopropyl alcohol used in the modified waterless printing process is recycled and reused. This process is environmentally friendly. However, the isopropyl alcohol used in the modified waterless printing process is recycled and reused. This process is environmentally friendly. However, the isopropyl alcohol used in the modified waterless printing process is recycled and reused. This process is environmentally friendly.

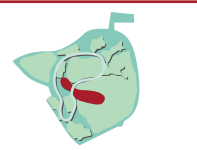
Recycled Paper Mark
This mark is made of organic compounds. These compounds are made from waste paper and recycled paper. The mark is made of organic compounds and is made from waste paper and recycled paper. The mark is made of organic compounds and is made from waste paper and recycled paper.

SOY INK
This is a method of bringing the ink into a dampening solution. Because special absorbent rollers are used in the modified waterless printing process, even if the ink is applied to the printing plate, the ink does not reach the printed area, and no dampening solution is required. On the other hand, in water-based printing, the ink is applied to the printing plate, and the ink is transferred to the paper. This process requires a large amount of water. However, the isopropyl alcohol used in the modified waterless printing process is recycled and reused. This process is environmentally friendly. However, the isopropyl alcohol used in the modified waterless printing process is recycled and reused. This process is environmentally friendly.

VOC (Volatile Organic Compound) Free
VOC is made of organic compounds. These compounds are made from waste paper and recycled paper. The mark is made of organic compounds and is made from waste paper and recycled paper. The mark is made of organic compounds and is made from waste paper and recycled paper.

Introduction of Environmentally Conscious Facilities and Activities

Japan Zone



AO1 Clustered column from Thinned Wood (Japan Pavilion Nagakute)

Thinning the forests is necessary for their conservation. However, thinned wood has seldom been used as building material because of its small diameter, shortness and number of knots. The "clustered column" exhibited here are made from such thinned wood. The clustered columns are composed of a total of nine short and long logs of thinned wood, with a flower-patterned cross-section.



AO2 Biodegradable Plastic Exterior Wall (Japan Pavilion Nagakute) *

These walls are made of starch like field corn and waste food. They are produced in transparent form, and fitted over wooden frames with foam cushioning materials filled at the inner side to provide heat insulation. In addition, they allow entry of external light through gaps in the cushioning materials, resulting in reduction of indoor lighting energy during daylight hours.



AO3 External Walls Made from Kokumazasa (Japan Pavilion Nagakute)

Kokumazasa belongs to the Gramineae family, like bamboo. Panel-type seedbeds are installed on external walls equipped with automatic watering devices. Plant leaves provide transpiration effect, and when their surroundings are cooled, the temperature of the external walls can drop by approximately 7°C.

AO4 Bamboo Cage (Japan Pavilion Nagakute)

Bamboo mesh provides protection against the sun and creates spaces of leafy shade inside the building, resulting in reduced air-conditioning load. The bamboo cage is an experiment of effective transpiration effect, and when their surroundings are cooled, the temperature of the external walls can drop by approximately 7°C. A total of 23,000 bamboo trees are used for this cage.

CO1 Building with Bamboo and Tea Trees (NGO Global Village)

This eco-friendly building is made of natural materials like old bamboo and tea trees, and presents the image of an egg or cocoon.



CO2 Paper Made from Bananas Stems (Wanpaku Treasure Island)

The technology that produces paper from banana stems is introduced at this facility. Since banana stems contain lots of fiber, they are suitable as raw material for paper. Not only paper, but also applications for clothing material are under development. Banana stems have seldom been utilized until now, but their use for paper manufacturing can assist in forest conservation and reduction of waste materials, as well as contributing to industrial development in developing nations. The aprons used at the paper mill corner are also made from banana stems.



CO3 Organic Garden (NGO Global Village)

This garden utilizes nature's circulation mechanism. The water drained from the natural food cafe kitchen is cleaned by bio-gio filters. Organic matter in the wastewater is dissolved by microbes lurking around plant roots and on the surface of porous ceramic, and is then absorbed by plants after it becomes non-organic. The purified water is used for ponds and rice fields. Visitors can actually see the purification progress of the wastewater.



AO5 Roof Made of Photocatalytic Tiles (Japan Pavilion Nagakute) *

The roof is made of steel sheets coated with titanium oxide. By utilizing hydrophilicity which is a feature of photocatalyst, water flows from the top of the roof. As the water spreads over the roof surface and evaporates, it is cooled down resulting in reduced air-conditioning load.

AO6 Wind Power Generation (Aichi Pavilion Nagakute / Aichi Pavilion Seto) *

Thanks to the utilization of the "Green Power Certification System", the entire electricity consumed during the EXPO is supplied by wind power energy generated by two wind power generation facilities in Aichi Prefecture (Tahara City, Chita City).

CO4 Organic Garden (NGO Global Village)

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AO7 Wooden-Plastic Gears (Chubu Community for Millennial Symbiosis)

Chips of woods are used for these gears. After high-temperature heat treatment, the chips are dried and press-molded to have plastic-like strength. Wood chips which have conventionally been disposed of by incineration are recycled. When they age, they can be pulverized for reuse or returned to the soil.

AO8 "Onpu" Driven by the Power of Nature (Nagayo City "Earth Tower")

"Onpu" is a rotating musical instrument powered by natural elements like wind and sunlight to hit the notes. The play speed changes according to the strength of the wind. It can also be played by turning it manually, when there is no wind. This facility is designed for visitors to experience natural energy.

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AO9 "Lignin" - Recycle Technology of Wood Materials (Chubu Community for Millennial Symbiosis)

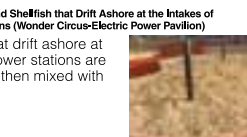
Used paper is frayed into fibers and then put in a molding box, where it is dried and molded. It is then put under lignin-based fluid until it absorbs the fluid. This process turns paper into wood. Everyone knows that paper is made from wood, but this facility shows that wood can also be made from paper.

AO10 Reduction of Cooling Load by Photocatalytic Coating, Water Curtain and Mist (Nagayo City "Earth Tower")

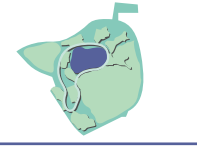
Water flows over the external wall of the Kalkidoscope Tower to present patterns of water flow. At the same time, the entire tower is covered with a water curtain to prevent rise in ambient temperature, resulting in reduced cooling load. To make the water curtain spread over the entire tower, the external wall is coated with photocatalyst which provides ultra hydrophilicity. This coating also dissolves nitrogen oxides present in the air to make it harmless. In addition, a mist jet is emitted from three edges of the external wall to reduce ambient temperature.

CO6 Organic Garden (NGO Global Village)

This garden utilizes nature's circulation mechanism. The water drained from the natural food cafe kitchen is cleaned by bio-gio filters. Organic matter in the wastewater is dissolved by microbes lurking around plant roots and on the surface of porous ceramic, and is then absorbed by plants after it becomes non-organic. The purified water is used for ponds and rice fields. Visitors can actually see the purification progress of the wastewater.



Center Zone



BO1 Fuel Cell Decorated with Ornaments (Global House)

A fuel cell that generates electricity using hydrogen and oxygen in the air is used to drive the "Galaxy Clock". The fuel cell is exhibited near the welcome zone of the Global House.

BO2 Solar Cell and Wind Power Generation (EXPO Plaza)

The all-in-one facility generates electricity using wind power and sunlight that are present in the natural world. It consists of a total of 27 units with power generation capacity of 84W for solar cell and 33W for wind power generation. The facility is used to provide power for night lighting.

CO7 Organic Garden (NGO Global Village)

Photocatalytic tents coated with titanium oxide are used as the large tent covering the superconducting linear motor car as well as the tent over the entrance. These tents utilize ultra hydrophilicity, the feature that shows the tents' affinity with water when they absorb light. When water is sprinkled on the tent surface, it forms a thin film, and when the film evaporates, the tent's surface temperature drops due to "water sprinkling" effect, resulting in a drop in air temperature below the tent.

CO8 Organic Garden (NGO Global Village)

This garden utilizes nature's circulation mechanism. The water drained from the natural food cafe kitchen is cleaned by bio-gio filters. Organic matter in the wastewater is dissolved by microbes lurking around plant roots and on the surface of porous ceramic, and is then absorbed by plants after it becomes non-organic. The purified water is used for ponds and rice fields. Visitors can actually see the purification progress of the wastewater.

BO3 Bio Lung (EXPO Plaza)

A giant green wall located at EXPO Plaza, 150 meters in length and 12 meters in height, "Bio Lung" is a word combining "Bio," which means life, and "Lung," which is a necessary organ for life. With various problems, such as global warming and heat island phenomenon, becoming serious, the construction of towns where people can live comfortably is getting to be a more important issue. With the "green roof" concept spreading, green walls have started to draw attention as a means of expanding green areas. Not only greening the roofs, but also greening the walls to reduce air-conditioning load is just beginning.

BO4 Solar Cell and Wind Power Generation (EXPO Plaza)

The all-in-one facility generates electricity using wind power and sunlight that are present in the natural world. It consists of a total of 27 units with power generation capacity of 84W for solar cell and 33W for wind power generation. The facility is used to provide power for night lighting.

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CO10 Organic Garden (NGO Global Village)

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The "EXPO Eco-Money" project is designed to verify and experiment a new social system. "EXPO Eco-Money (= points)" is given to people who carry out activities such as the reduction of shopping bags and other eco-friendly activities, and in return they can collect points as mileage points. The points can then be exchanged for privileges or giveaways, or donated to local environmental conservation activities. This project is targeted to raise and promote awareness of "eco-friendly activities" through EXPO. "EXPO Eco-Money" is issued inside and outside EXPO.

EXPO Eco-Money



If you bring this map to the EXPO Eco-Money Center after visiting environmentally conscious facilities, Eco-money points will be given to you.

<http://eem.jp/>

Scraps of Knowledge

Thinned Wood

Thinning means to log some of the trees in overgrown forests, and these logged trees are called thinned wood. Rich forests can be regenerated by thinning.

Photovoltaic Power Generation

Electricity is generated using semiconductor elements (e.g. silicon) to receive sunlight. This facility produces eco-friendly energy.

Biodegradable Plastic

Biodegradable plastic is made from starch products such as field corn, and provides performance similar to conventional plastic. When being disposed of, it is dissolved into carbon dioxide and water by microbes, therefore it is friendly to the environment.

Roof/Wall Greening

The entire building is cooled down by greening not only the roof but also the walls. This method not only reduces air-conditioning load, but also allows the walls to be decorated with flowers and greenery.

Bamboo

Japan has become overgrown with bamboo trees, requiring preventive measures. It is necessary to promote effective utilization of bamboo trees.

Wind Power Generation

This facility generates electricity by rotating the propeller with wind force. It produces eco-friendly energy.

Photocatalyst

Titanium oxides act as a catalyst and cause decomposition using photon energy. Although photocatalyst provides various functions including deodorization, antibacterial action and antifouling, many facilities at EXPO utilize ultra hydrophilicity of photocatalyst to cool down the roofs to reduce air-conditioning load.

Fuel Cell

Counter-Heats of water electrolysis is utilized to generate electricity from hydrogen and oxygen present in the air. Only water is discharged, so compared to the conventional methods of burning fossil fuels to generate electricity, fuel cells feature high efficiency, low noise, low vibration and low emission of CO₂. The energy generated in this way is eco-friendly.

Mist

Devices that generate fine mist are installed at entrances and places where a large number of people gather to rest, to reduce the surrounding temperature by vaporization heat that is generated when the mist evaporates. These small and large sized devices are installed in ten or more places.

Corporate Pavilion Zone



EO1 Air-Conditioning Structure by Aqua Wall (Mitsui-Toshiba Pavilion)

Water flows from the 16-meter-high roof along louvers at the front of the pavilion, and then at a height of 4.5-meters it falls into a bowl. This provides a comfortable space for the visitors as it decreases the feeling of heat and increases coolness.



EO2 Double-Sided Solar Panels (Hitachi Group Pavilion)

Double-sided solar panels can be installed vertically, allowing drastic reduction of materials used for panel mounting bases. The double-side type has an annual generation capacity approximately 1.3 times larger than that of the single-side type, and if it is installed vertically, light will not be blocked since snow, dust and bird droppings do not collect on the panel, thereby preventing drop in generation conversion efficiency. They can also be used as fences as they are, expanding the fields where the panels can be applied. The generated electric power is used for the Hitachi Group Pavilion.



EO3 Wind Power Generation (Toyota Group Pavilion) *

The electric power generated by the wind power generation system built in Tahara City is supplied and used for the Toyota Group Pavilion, Emission of CO₂ is eliminated collectively. One generation system of 1960-KW output is used.



EO4 Roof Greening (Gas Pavilion)

Approximately 50% of the roof is planted with greenery to block the heat from the external air, resulting in reduction of air-conditioning load. Visitors can go up onto the roof and actually feel it. A mist generator is also installed at the center of the roof.



FO1 Wood Chip Paving (Trail)

The pavement is covered with wood chips that are produced by pulverizing thinned wood into chips and solidifying them by steam pressing. The surface is soft and very comfortable to walk on. It can also retain water well, and is a good example of utilizing thinned wood as a solution against the heat island phenomenon. The same pavement is also used at the entrance to the Mitsubishi Pavilion.



FO3 Nature School Forest

Participation in the Nature School Forest will surely provide an opportunity to encounter tips for an eco-friendly life style. During the tour in the forest, visitors can actually see the various attempts made in consideration of natural surroundings, including "utilization of thinned wood", "solar array panel", "utilization of rain water", "facility covered with greenery", "mud walls and roofs", "roof greening" and "wood chip paving".

FO2 ECO LINK by Ministry of the Environment (Forest Visitor Center)

"ECO LINK" provides a trigger for individuals to start something that they can do themselves to protect our beautiful Earth.



FO4 Reducing Ambient Temperature by Mist (Japanese Garden)

Mist is generated from the foot of the bridge near "Satsuki and Me's House" at the rear of the Japanese Garden, to reduce the ambient temperature as well as presenting a magical atmosphere.



Global Loop



GO1 Global Loop Base Materials

The Global Loop is 2.6-kilometers long and 21-meters wide, and the following are used as the base:
 (1) Eucalyptus trees from Brazil
 (2) Thinned wood from Aichi Prefecture
 (3) Mixed material comprising waste wood and waste plastic
 The light brown area in the middle of the loop is made of (3), and provides a higher level of strength than both the sides so that trans and emergency vehicles can run along it.

GO2 Benches Made from Thinned Wood

Benches are provided on both sides of the Global Loop. These benches are made of thinned wood from Aichi Prefecture.

GO3 Dry Mist from Tents

Mist generators are provided at the Global Loop. When visitors rest under the tent in summer months, jets of mist are sprayed near the tent poles to remove vaporization heat. This cools down the surrounding temperature, allowing visitors to rest comfortably in the cool air. A total of 1,824 nozzles is used, and mist is sprayed from the places where tents are installed at both sides of the Global Loop.

Other Facilities

Biomass Table Wares

"Biodegradable plastic" is made from starch such as field corn, and provides performance similar to conventional plastic. When it is disposed of at the end of use, it is dissolved into carbon dioxide and water by microbes, and is therefore considered to be friendly to the environment.

Fountain Bowl Made from Waste Ceramic Ware

Waste ceramic wares are those that are newly manufactured using particles obtained by pulverizing broken ceramic wares. The proportion of such particles in waste ceramic ware is 50%. Ceramic wares that would conventionally be buried are recycled to reduce the amount of waste.

Fuel Cell Hybrid Vehicle Bus

Fuel Cell Hybrid Vehicle Bus, that use hydrogen as fuel to generate electricity, are next-generation vehicles. Gasoline-powered vehicles emit CO₂, that causes global warming, and nitrogen oxides, that are harmful to the human body, however only water is discharged from fuel-cell-powered vehicles. Low noise and low vibration are other features of these buses.

EXPO AMEDAS (Automated Meteorological Data Acquisition System)

Temperature, ground surface temperature, wind direction/speed and CO₂ concentration in the Nagakute Area are measured at approximately 20 points, and the results are shown on the home page (EXPO ECO CLUB). This is utilized for verification of landscape conservation and environmentally conscious building of the EXPO site, as well as for environmental education programs.

Uniforms Made from Regenerated Fiber and Vegetable Fiber

Uniforms are manufactured for staff in each pavilion. Many of them are made of eco-friendly materials (e.g. regenerated PET bottle fiber, regenerated clothing, bamboo fiber).

Biomass Banners and Signs

Not only tableware, but also banners and signs (information signs) are made of biodegradable plastic.

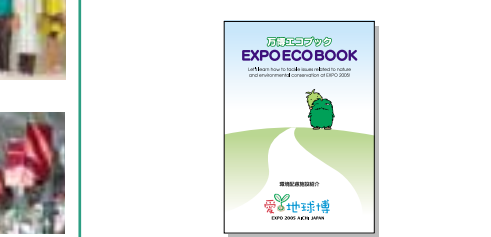
Garbage Separation (9 Categories)

To be friendly to the environment, garbage is sorted into 9 categories by visitors and 17 by EXPO staff. This is also targeted at improving awareness of garbage separation.

Eco-Friendly Souvenirs

Packing boxes and mat boards are made of recycled paper and minimized in size. In addition, visitors are encouraged not to use shopping bags to promote eco-friendliness (at shops selling official commemorative gifts). The photo shows the minimized mat boards.

Note: The facilities marked with *** may not be seen in the vicinity since they are located at the back or outside the area.



EXPO ECO BOOK

"EXPO ECO BOOK" with full descriptions of major facilities is available free. Please use it together with this map. The EXPO ECO BOOK is available at the information center.

