

O

CARING FOR THE FUTURE
BY CARING FOR THE
EARTH AND PEOPLE



Contents

1	Foreword
2	Overview of the Global Environment Centre Foundation
4	Activities in Fiscal Year 2004 <ul style="list-style-type: none">• International Cooperation: Technical Support for Developing Countries• Training of Environmental Technology• PR and Educational Activities• Provision of Facilities to UNEP/DTIE/IETC
16	Projects for Fiscal Year 2005
18	References <ul style="list-style-type: none">• Overview of the UNEP/DTIE/IETC• Board Members of the Global Environment Centre Foundation• Publications List

Foreword

The entry into force of the Kyoto Protocol in February 2005 will see a major step forward in international efforts to deal with global warming.

While the response of each nation based on the principle of “common but differentiated responsibility” has demonstrated just how hard a united effort towards sustainable development indeed is, the steady endeavour towards environmental conservation on a global scale is progressing one step at a time with the understanding and cooperation of all relevant parties.

Against this backdrop, the Global Environment Centre Foundation (GEC) has continued to make an international contribution as best it can in areas such as vital technology transfers and human resource training through its environmental conservation policies including global warming countermeasures in order to realize sustainable development in developing countries and achieve a balance between the environment and development.

GEC has collaborated with and assisted the International Environmental Technology Centre (IETC), a part of the United Nations Environment Programme (UNEP)’s Division of Technology, Industry and Economics (DTIE) in the area of technology transfer by updating and enhancing the Environmentally Sound Technologies (ESTs) database.

GEC is also working to provide frameworks and technical information instrumental in improving the environment in developing nations through the CDM/JI Feasibility Study Programme commissioned by the Ministry of the Environment and via support for conservation activities subsidised by the Japan Fund for Global Environment.

In terms of its human resource training efforts, GEC has drawn upon its ingenuity to provide technical training to Iraqi personnel as part of the UNEP Project on Support for Environmental Management of the Iraqi Marshlands as well as offering curriculum suited to the domestic needs of participants in JICA’s annual training courses.

GEC is also active within Japan in its efforts to tackle environmental issues as well, such as its co-hosting of the CDM Forum and hosting of environmental exhibitions in an attempt to broaden activities based on a deeper understanding.

We at GEC would like to continue to support IETC and contribute to environmental conservation while calling upon the cooperation of all related organisations and people from all walks of life.

It is our hope that, through this annual report, we are able to foster an understanding of GEC’s activities, and that we may look forward to your continued support and cooperation in the future.



January 2006

A handwritten signature in black ink that reads "N. Kumagai". The signature is fluid and cursive, with a long horizontal stroke at the end.

KUMAGAI, Nobuaki

President

Global Environment Centre Foundation

Background of the Establishment

Establishment of the UNEP/DTIE/International Environmental Technology Centre

In the 1960s, in conjunction with rapid industrialization, the city of Osaka suffered from several unprecedented environmental problems. Enormous infrastructure improvements and development of environmental technologies were subsequently achieved through cooperation between municipal government and industry. In hopes of extending these benefits beyond its borders, the Osaka City Government has been working to help alleviate environmental problems in developing countries.

With this background, in August 1989, Mr. Masaya Nishio, Mayor of Osaka, announced a plan to attract an international environmental organization to the city in order to disseminate and apply Osaka's successful experience with urban environmental management. This plan was announced in accordance with the spirit of the International Garden and Greenery Exposition held in Osaka in 1990. Following the mayor's announcement and with the support of the national Japanese government, the Osaka Prefectural Government, and business organizations in the region, Osaka Mayor Nishio officially handed a request to Dr. Mostafa K. Tolba, then Executive Director of the United Nations Environment Programme (UNEP), while he was visiting Japan.

The result was that, in July 1990, at a summit of developed nations in Houston, USA, Prime Minister Toshiki Kaifu announced the plan of setting the UNEP facilities up in Japan. In August of the same year, Mr. Naohiro Kumagai, then Japan's ambassador to Kenya, proposed to the 2nd Special Meeting of the UNEP Governing Council that a center be set up in Japan in view of the increasing importance of environmental technology transfer to achievement of sustainable development. In May of the following year, a resolution to establish the UNEP/DTIE/International Environmental Technology Centre (IETC) whose mandate is the adoption, application and operation of Environmentally Sound Technologies (ESTs) in developing countries and countries with economies in transition, was unanimously approved at the 16th Session of the UNEP Governing Council. Official establishment of IETC was completed in October 1992 in Osaka when UNEP Executive Director Tolba and Parliamentary Vice-Minister for Foreign Affairs Kakizawa signed an official agreement marking the founding of IETC. Since 1998, IETC has opened as a part of UNEP's Division of Technology, Industry and Economics Division (DTIE).

- Note: all titles are effective as of the years mentioned here.

Establishment of the Global Environment Centre Foundation

After official approval in 1991 by the UNEP Governing Council to set up the IETC in Japan, the Osaka City Government formed an IETC Osaka Planning Office on July 3, 1991. The purpose of the office was to carry out planning and create a network of support for the proposed center. Following initial preparation by the Planning Office, capital endowment was received from the Osaka prefectural and city governments. The establishment of the Global Environment Centre Foundation (GEC) was carried out on January 28, 1992 with the expressed purpose of supporting IETC. GEC, a nonprofit organization, obtains support from the local business sector.

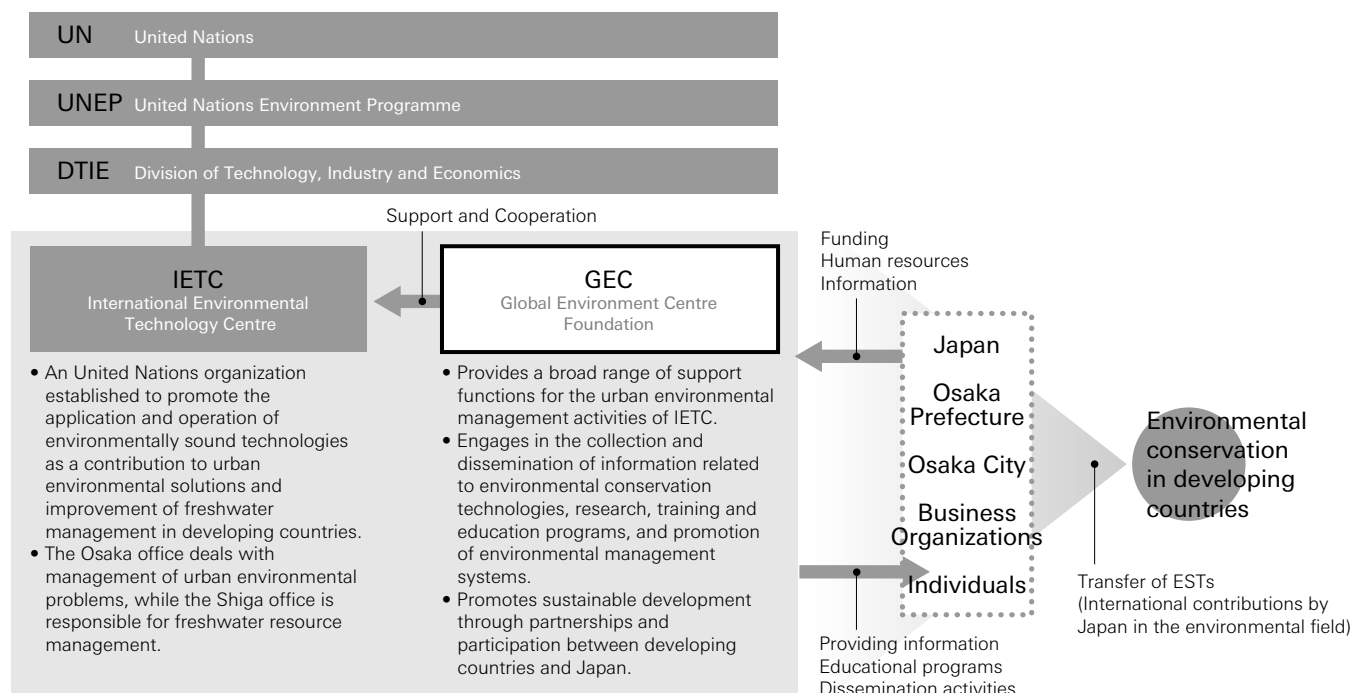
GEC provides logistical support to IETC Osaka and collaborates with IETC on joint projects. It also acts as a liaison between environmental organizations in Japan and the IETC. In this way, it helps to ensure the IETC's smooth and efficient operation. In addition, GEC promotes environmental conservation through original projects such as the collection and dissemination of environmental technological information, training programs, seminars and symposia, as well as research.

Thus, in all of these ways, GEC's activities make a significant international contribution by Japan in the environmental field.

Mission and Objectives

GEC was established to make use of the abundant accumulation of knowledge and experience in Japan in the field of environmental conservation. In particular, it makes use of knowledgeable groups and individuals in the Kansai region in order to support contributions of IETC in the field of urban environmental management in developing countries. Thus, GEC promotes international cooperation around environmental conservation, and aims to make meaningful, practical contributions to the protection of the global environment.

Name	Global Environment Centre Foundation (GEC)
Date of Establishment	January 28, 1992
Supervisory Authorities	The Ministry of Foreign Affairs of Japan Ministry of the Environment of Japan
Office Location	2-110 Ryokuchi-koen, Tsurumi-ku, Osaka 538-0036 Japan Telephone: +81-6-6915-4121 Facsimile: +81-6-6915-0181
Endowments	1,748,110,000 yen (as of March 31, 2005)
Activities	<ol style="list-style-type: none"> (1) Providing general support for activities of UNEP relating to urban environmental conservation in developing countries (2) Undertaking research which contributes to the conservation of the global environment, with particular emphasis upon urban environmental management in developing countries (3) Collection and dissemination of information which contributes to the conservation of the global environment, with particular emphasis upon urban environmental management in developing countries (4) Conducting of training programs, seminars, and symposia which contribute to conservation of the global environment, with particular focus upon urban environmental management in developing countries (5) Facilitating communications with international organizations, governmental organizations, and research organizations in various countries, in order to contribute to conservation of the global environment (6) Any other activities necessary to achieve the mission of GEC
Number of Staff	28 (as of September 1, 2005)



Activities in Fiscal Year 2004

GEC co-hosted an international workshop and symposium with IETC in Kawasaki City in June entitled "Urban and Industrial Symbiosis" to promote IETC's activities of spreading information on Environmentally Sound Technologies (ESTs) and technology transfer. GEC was also commissioned by IETC to conduct the Sustainable Sanitation Training Course for approximately two weeks in December as a part of UNEP Iraqi Marshland Project.

In its ongoing process to overhaul its database of environmental technology information NETT 21, GEC updated the Water Pollution Control Technology in Japan database.

It also formed a working group to carry out a field survey on the activity by local residents and the current state of pollution in Thailand's Tha Chin River basin as a part of its international cooperation within developing nations.

GEC's contribution to the mitigation of global warming lies in its role as the secretariat for CDM/JI Feasibility Study (FS) Programme commissioned by Ministry of the Environment since 1999, and its ongoing efforts to unearth promising CDM/JI projects and gather updated information and knowledge. At the UNFCCC COP10 held in Buenos Aires, Argentina, GEC co-hosted a side event with related organisations where it reported the results of the CDM/JI FS projects.

In addition, the Centre accumulated information at the CDM Executive Board meetings and other gatherings, and then published it on its website.

Carrying on from last year, GEC conducted five JICA training courses to train personnel from developing nations and furthered efforts to enhance its Internet-based network which aims to follow up on the progress of the former participants and to better understand the needs of developing nations.

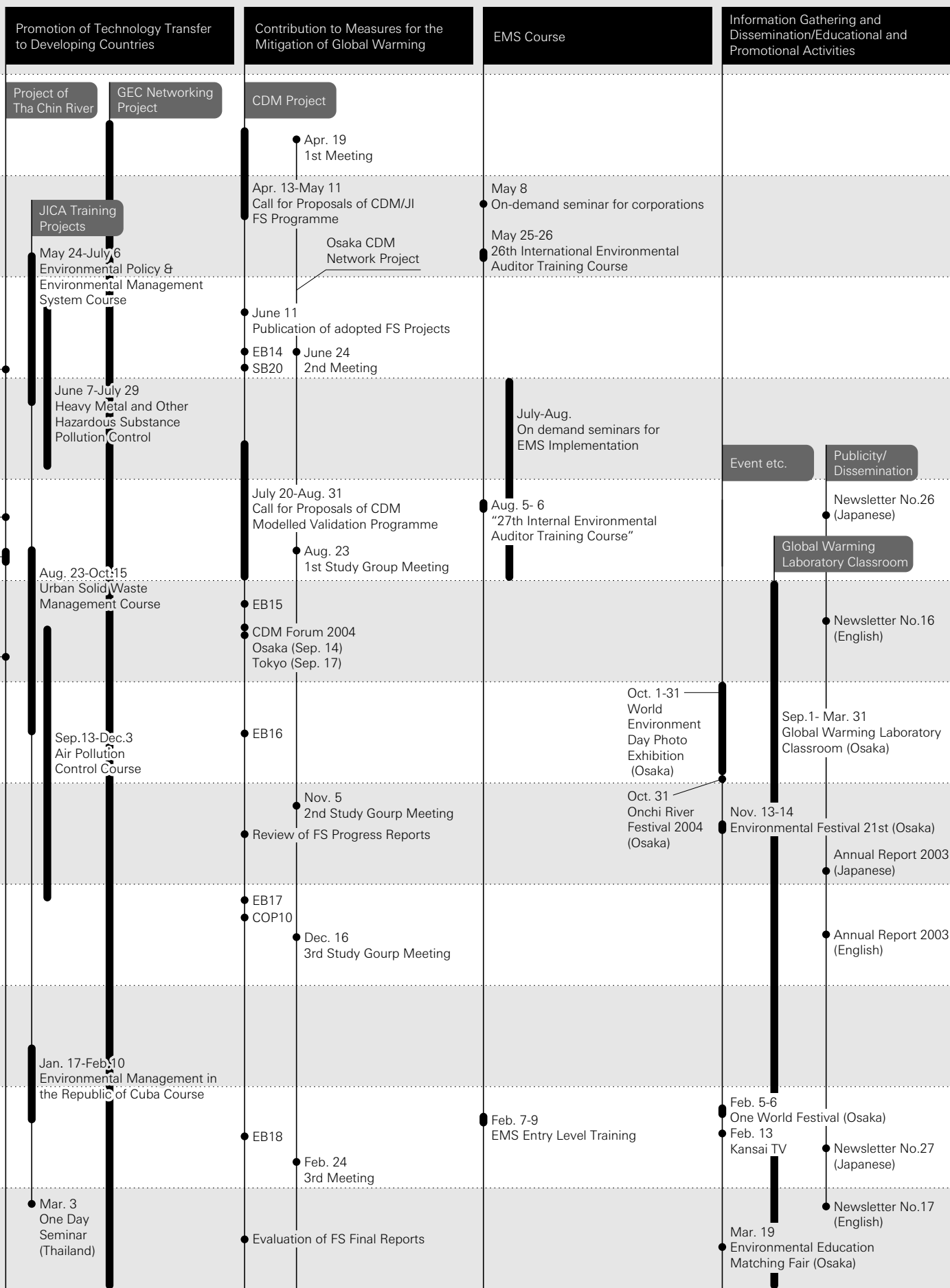
Also carrying on from 2003, GEC disseminated Environmental Management Systems (EMS) by offering its Internal Environmental Auditor Training Courses.

GEC's public relations and awareness-raising activities include its support for UNEP Special Envoy Ms. Tokiko Kato on her visit to India in May and China in July.

The year 2004 marked the tenth anniversary since the inauguration of IETC. To mark this occasion, GEC co-organized a commemorative international symposium with IETC in May.

The Centre also continued to run the Global Warming Laboratory Classroom in elementary schools in Osaka Prefecture.





Promoting IETC's Activities of Disseminating Information on Environmentally Sound Technologies (ESTs) and Technology Transfer

ESTs

Environmentally Sound Technologies, as defined in Agenda21, should protect the environment, are less contaminative, use various resources in a more sustainable manner, recycle more of their wastes and, products and handle residual waste in a more acceptable manner than the technologies for which they were substitutes.

Core Criteria

refers to universal core criteria (EST evaluation standards)

International Symposium on Urban and Industrial Symbiosis

Participants: 200

Hosting an Experts Workshop and Public Symposium on ESTs and Sustainable Urban Development

Since 2001, IETC has promoted the following projects under the "EST Initiative" in order to encourage the transfer and dissemination of ESTs in developing countries.

The EST/ESTPA Project aimed to establish the EST Guidelines to assist decision makers in developing nations to identify and select ESTs, to create a system called ESTPA for the assessment of ESTs including verification by third parties as well as to formulate the ESTPA Guidelines to act as a handbook for the system's use.

GEC has been working with IETC to promote such EST initiatives, and in 2001 set up a Japanese experts group to establish core criteria for determining which technologies should be deemed suitable as ESTs. Building upon these results, GEC then organized an international workshop and symposium held on June 9, 2004 in Kawasaki City on environmental technology and sustainable urban policy targeting companies and the general public entitled "Urban and Industrial Symbiosis".

The symposium also included a panel discussion on international trends in urban environment management, eco-industrial concepts in the Asia Pacific region and the issues involved in realizing a recycling-oriented society. Discussion was also held on the benefits for Kawasaki City in becoming known as a pioneer environmental city through an international network.



Public symposium in Kawasaki City

International Symposium on Urban and Industrial Symbiosis - Environmentally Sound Technologies and Sustainable Urban Management

Date	June 9, 2004, 13:00-17:00
Venue	Institute of Industrial Promotion Kawasaki, Kawasaki, Japan
Organisers	UNEP/DTIE/IETC, Japan Society of Civil Engineers, Kawasaki City, GEC
Programme	<ul style="list-style-type: none"> Plenary Speeches "Environmentally Sound Technologies and Sustainable Development" (Dr. Halls, Director of UNEP/DTIE/IETC) "Environmentally Sound Technologies for Sustainable Urban Management" (Prof. Hanaki, the University of Tokyo) Panel Discussions <p>Theme: Urban and Industrial Symbiosis-Environmentally Sound Technologies and Sustainable Urban Management</p>

NETT 21

(New Environmental Technology Transfer in the 21st Century)

a database developed by GEC from 1996 onward to disseminate information on Japan's environmental technologies for the purpose of promoting EST transfer in developing countries.

ESTIS

an IS management tool to assist the transfer of ESTs

UNEP/GEC Session

GEC conducted PR for the NETT 21 database during the Poster Session (refer to page 14 for related article).



Promoting the Spread of Information on ESTs

In FY 2004, GEC improved the overall user friendliness of its database on environmental technology information NETT21 by enabling cross searches of nine of the database's ten fields.

GEC also established an expert panel to investigate the update and expansion of its Water Pollution Control technology database seven years on from its public launch, as well as examining coordination between GEC and Japan's Information Providers. The results were then used to improve the database by organising its technical scope and classification categories and establishing a common platform for use when receiving information from companies.

In March 2005, GEC acted as a co-host at the Forum on Environmental Technology organised by the Japan Society of Industrial Machinery Manufacturers (JSIM) and the Thai Ministry of Industry where it presented the



(*) The database is now easier to view with the introduction of a common platform and a series of pictures and graphs.

“UNEP/GEC Session on Environmentally Friendly SMEs” in order to promote the transfer of ESTs. The session featured a panel discussion which addressed the need for government participation and incentives in order to disseminate environmental technologies as well as the role that ASEAN should play in the spread of ESTs and cleaner production (CP).

UNEP/GEC Session “Environmentally Friendly SMEs”

- Importance of Information Management for Environmentally Sound Technologies (ESTs) Transfer

Date	March 3, 2005, 14:15-17:00
Venue	Bangkok, Thailand
Programme	<ul style="list-style-type: none"> • Keynote Speeches “Policy of the government of Thailand on SMEs and Environment Technologies” (Mr. Naphavaranonth, Director of Factory Environmental Technology Bureau, Ministry of Industry, Thailand) “Environmentally Sound Technologies and Sustainable Development” (Dr. Srinivas, Programme Officer, UNEP/DTIE/IETC) • Panel Discussion Theme: Environmentally Friendly SMEs

Urban Water Issues

The Johannesburg Summit in 2002 addressed the critical importance of securing a safe water supply and a basic level of sanitary facilities. As such, IETC is now more actively involved in the areas of urban water supply and public sanitation.

GEC began the GEC Sanitation Programme (GESAP) in 2003 and created the GESAP website in 2004 in order to promote the transfer of water-related ESTs in developing nations. The GESAP site can be accessed through the GEC website.

Promoting the Dissemination of Energy-Saving Technology at Business-Related Buildings

In FY 2003, GEC added a new Support Tool to the “Energy Saving Technology at Business-Related Buildings” database within NETT21 to facilitate searches on energy-saving technologies, thereby enhancing and improving the technical information on ways to conserve energy and reduce greenhouse gas emissions.

GEC further developed the Energy-Saving Support Tool in FY 2004 to target personnel in business-related buildings within Japan as well as in developing nations. The Centre also collected information relating to Energy Service Companies (ESCOs) to promote improvements in energy saving.

Report on Eco-Towns

Although IETC has previously been involved in waste management, it is now also working on a new project to promote the concept of eco-towns in developing nations based on similar experiences in Japan.

In 2004, GEC responded by carrying out studies and analysis of the issues and roles of those involved in the formation and administration of eco-towns in Japan and the relationship of eco-towns to the 3R principle (reduce, reuse and recycle) and the creation of a recycling-oriented society. GEC then compiled the results of its study and drafted materials to aid IETC when launching projects in developing nations.

GEC Sanitation Programme (GESAP)

The site consists of three main themes, namely “The Global Situation in the Sanitation Sector”; “Water and Wastewater Reuse”; and “Sewerage Works in Osaka, Japan”.



ESCO

A client-oriented business which supports energy saving initiatives by providing a comprehensive plan from design and construction to financing of energy-saving projects. An ESCO may offer to guarantee cost savings from energy conservation and then receive part of those savings as remuneration.

Eco-Town

The Eco-Towns developed in Japan utilize a framework whereby environmentally-sound enterprises are built on accumulated land using local technologies and industries, thereby stimulating the local economy and ensuring employment as well as simultaneously achieving waste management and conservation of water and air quality.



Workshop in progress



Participants view small scale wastewater purification tanks in Toyono, Osaka

UNEP Project on Support for Environmental Management of the Iraqi Marshlands Training Course on Sustainable Sanitation

In 2004, GEC supported the implementation of the Training Course on Sustainable Sanitation which operates within the framework of IETC's ongoing project to help the management and restoration of the Iraqi Marshlands (herein referred to as the Project).



Participants view the rapid filtration facility at the Hirano Sewage Treatment Plant

Training Course Outline

Training period	December 6-17, 2004
Participants	Iraqi Ministry of Environment, the Ministry of Municipalities and Public Works, local governments located within the marshlands and academia
Content of Lectures & Activities	Wastewater treatment technologies, site visit to small and large scale wastewater treatment plants, practice of Marshland Information Network and ESTIS, low-cost sewerage systems, prevention of water-borne diseases, industrial wastewater control, PR activities on sewerage works, site visit to advanced wastewater treatments and wastewater reuse facilities

It has been verified that many settlements in the vicinity of the Iraqi Marshlands lack basic sanitation systems, and that waterborne infectious disease have reached epidemic proportions. It is therefore recognized that the amelioration of sanitation and wastewater treatment are critical factors in Iraq and this course was introduced as one of the Projects training activities.

The course was attended by 27 participants from the Ministry of the Environment, Ministry of Municipality and Public Works, Southern Governates and academics.

GEC organized the training course with the cooperation of Osaka City, Osaka Prefectural Government, academics and experts, and conducted workshops on the last two days of the course under the theme of future wastewater management in the Iraqi Marshlands.

The training course improved the policy-making and planning capabilities of the Iraqi Government's technicians and decision makers with regard to wastewater management, and is expected to enable them to participate more effectively in secondary training within Iraq and the wastewater pilot project being scheduled within the framework of the Project.

UNEP Project on Support for Environmental Management of the Iraqi Marshlands

Please refer to the IETC website for details:
<www.unep.or.jp>

Outline of the UNEP Project on Support for Environmental Management of the Iraqi Marshlands

Since August 2004, IETC has been implementing an environmental management project made up of ecological policymaking including wetland management, wetland monitoring, training courses and other capacity building, and the trial provision of drinking water, wastewater and sanitation facilities, all with an eye to the long-term restoration and regeneration of the Iraqi Marshlands. The funds for the project (approximately 11 million dollars) have been provided by part of the Japanese Government's contributions to the United Nations' International Reconstruction Trust Fund Facility for Iraq.

Condition of the Wetlands

The Iraqi Marshlands were once the largest wetland region in the Middle East renowned for their indigenous ecological systems and biodiversity. However, dam construction and irrigation from the upper basins of the Tigris and Euphrates Rivers together with drainage projects under the former regime have led to a dramatic reduction in their size and have dealt a severe blow not only to the ecosystem but local fishing and agricultural industries as well.

International Cooperation in Developing Nations

Environmental Conservation Activities Involving Local Residents of Thailand's Tha Chin River Basin

The death of large numbers of fish in Thailand's Tha Chin River in 2000 led to an awareness of the need for environmental conservation by the local residents of the four provinces through which the river flows. The Thai Government sought the cooperation and assistance of GEC based on the experience it had acquired from GEC's activities in the city of Lamphun. In response to this request, GEC formed a support team in 2004 and in August of the same year carried out field studies on the local activities of residents along the Tha Chin River and its state of pollution, as well as examining the details of Tha Chin Project carried out by Mahidol University.



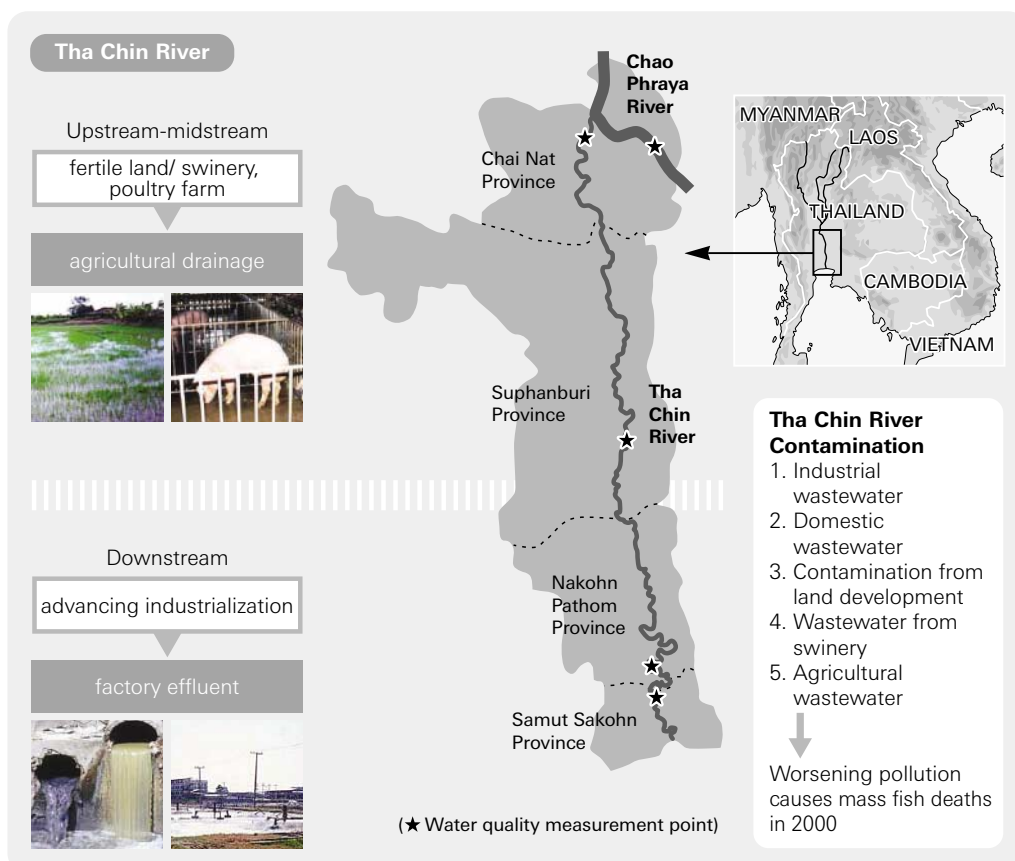
School children taking a pack test

Outline of the Study

Date	August 23-27, 2004
Purpose	Discussion of ways to support environmental restoration and implementation of hearings on preliminary field studies to that end
Members	Experts from the agricultural and livestock industries, industrial wastewater specialists and environmental activists
Key Destinations	<ol style="list-style-type: none"> 1. Chai Nat Province (dam facility, organic farms, Chao Phraya River distributary, Ban Nong Khae Elementary School etc.) 2. Suphanburi Province (temple upstream of agricultural test facility) 3. Nakohn Pathom Province (Mahidol University, Wat Don Wai School, deaf-mute School, pig farming village etc) 4. Samut Sakohn Province (Temple upstream of a factory drainage ditch, EM [Effective Microorganisms] fermentation plant, fish-processing factory etc)
Field Studies No.	River water quality measurements (5 in total)

Environmental Conservation Activities Involving Local Residents of Thailand's Tha Chin River Basin

Implemented with the assistance of the Japan Fund for Global Environment of the Environmental Restoration and Conservation Agency for 2005.



Contribution to Measures for the Mitigation of Global Warming

Kyoto Protocol

The international instrument adopted at the 3rd Conference of the Parties (COP3) to the United Nations Framework Convention (UNFCCC) which sets out a framework for international efforts to mitigate global warming. The protocol ordains targets for the reduction of greenhouse gas emissions in developed countries, as well as established flexible mechanisms to achieve these targets in the form of the Kyoto Mechanism (Clean Development Mechanism (CDM), Joint Implementation (JI), and Emissions Trading (ET)).

CER (Certified Emission Reduction)

Credits issued in response to greenhouse gas emission reductions achieved by CDM projects

COP (Conference of the Parties)

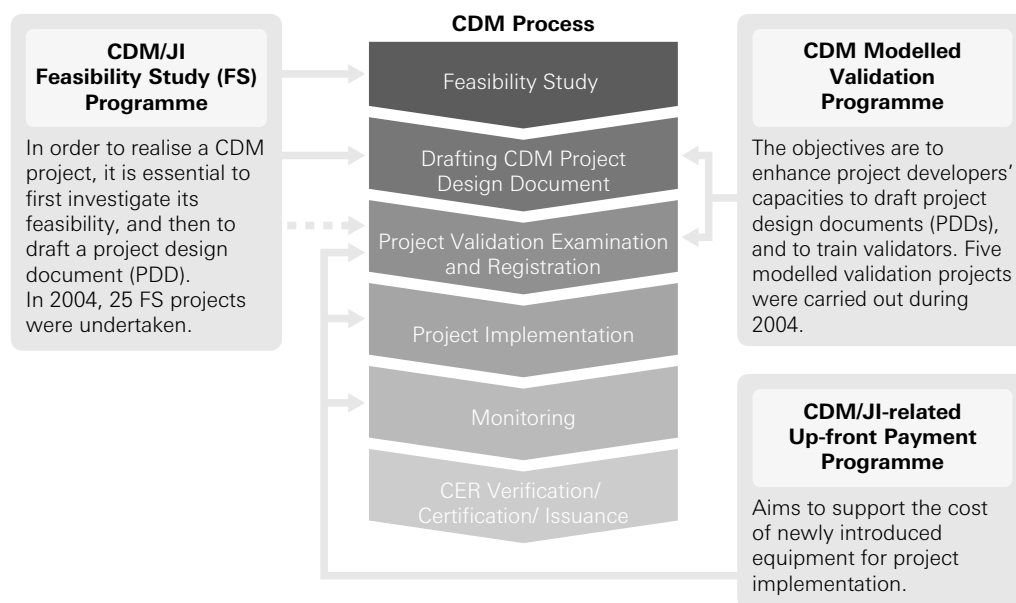
The supreme decision making body of the UNFCCC. Held annually.

CDM/JI Project Surveys

• CDM/JI Feasibility Study (FS) Programme

In 1999, GEC was appointed as the secretariat for the CDM/JI Feasibility Study (FS) Programme commissioned by the Ministry of the Environment. The objectives of the programme are to discover promising projects for the CDM (Clean Development Mechanism) and JI (Joint Implementation) established under the Kyoto Protocol, and to accumulate know-how and experience on CDM and JI for use in drafting domestic and international rules. In 2004, 25 FS projects were conducted and a database of the results as well as manuals for project implementation were published on the GEC website.

CDM/JI Flow & GEC Projects



List of 2004 CDM/JI Feasibility Study Projects

Category	Project	Country
Waste Management	Cogeneration by utilising wasted biomass	Thailand
	Sewage-origin biogas electricity generation	Kazakhstan
	Landfill gas capture & electricity generation	Indonesia
	Landfill gas capture & electricity generation	Vietnam
	Landfill gas capture & electricity generation	Ukraine
	Electricity generation by solid waste incineration	Indonesia
	Landfill gas capture & electricity generation	China
	Landfill gas capture & electricity generation	Russia
	Landfill gas capture & electricity generation	Thailand
Biomass Utilisation	Sugarcane biomass cogeneration	Poland
	Biomass electricity generation in sugar mills	Thailand
	High-efficient biomass electricity generation	Malaysia
	Bagasse biomass electricity generation	Brazil
	Rice husk biomass electricity generation	Cambodia
	Bio-diesel fuel manufacture from sunflowers	Thailand
	Biogas electricity generation	Thailand
	Bio-ethanol manufacture for vehicle fuel	Lithuania
	Bio-diesel fuel manufacture from tung trees + plantation of tung trees	South Africa
	Wood biomass electricity + plantation	Vietnam
Afforestation/Reforestation	Local community participatory reforestation	Ecuador
	Collaborative forestation with locals	Indonesia
Others	Incineration of HFC23 waste streams	Mexico
	Destruction of CF4, SF6, & NF3	Republic of Korea
	Renewable (solar & wind) energy development	Cambodia
	Fuel switch of boilers from coal to natural gas	Russia



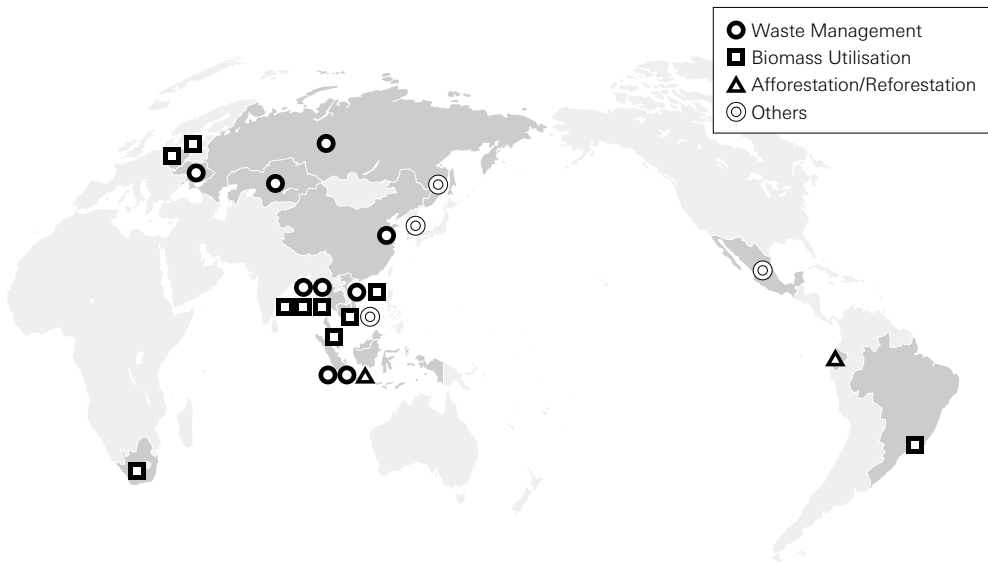
Biogas analysis wells at waste landfill site (Kajima Corp.)



Measurement for forestation (Sumitomo Forestry Co., Ltd.)



Photovoltaic and wind power generation apparatus (Marubeni Corp.)



• Collection and Distribution of Information at International Conferences

Rules on methodologies, verification and certification are all issues currently being debated in detail at the international level, so it is crucial to accumulate knowledge in these areas in order to support efforts toward the realisation of CDM/JI projects. GEC attended the UNFCCC COP10 held in Buenos Aires, Argentina, in December 2004, to collect and distribute information, as well as to hold a side event in collaboration with the Institute for Global Environmental Strategies (IGES). GEC also participated in the 20th session of the Subsidiary Bodies of the UNFCCC (SB20) held in Bonn, Germany, and the CDM Executive Board meetings. GEC was also officially admitted as an NGO observer at the COP9 in 2003.



Side Event held at COP10

Osaka CDM Network

In order to promote the active participation of companies located in the Kansai region, GEC set up the "Osaka CDM Network" in February 2004 in coordination with the Environment ISO Group of Kansai Branch, OISCA and the Business Innovation Centre Osaka. In 2004, the Osaka CDM Network conducted three general meetings, two research seminars and two external presentations.

Study on New Energy Systems

GEC is continuing its work of managing and collecting data obtained from the solar power generator installed atop the roof of the GEC office building and other equipment in an attempt to test their long-term durability and verify the demonstration facility as a new energy system.

CDM Executive Board (EB)

The supervisory body for the CDM responsible for authorising/approving baseline and monitoring methodologies and guidelines.

Subsidiary Bodies (SB)

Advisory bodies to the COP. One is the Subsidiary Body for Scientific and Technological Advice (SBSTA), and the other is the Subsidiary Body for Implementation (SBI).

Osaka CDM Network

The Osaka CDM Network, which incorporates academics and experts as well as members of government and public interest corporations, began four research seminars, namely energy conservation, waste management, biomass and forestation, in order to help find solutions to the issues facing participating firms. Network membership has grown to 24 companies from an initial 16.



Research seminar at Sansokan Hall, Osaka (August 23)

Capacity Building for Developing Nations

Country Report



A report prepared by each participant describing the environmental administration system, environmental situation and other related issues in his or her country.

Action Plan

When the training is over, each participant works out measures for environmental improvement in his or her country based on the findings and competence acquired through the training.

Japan International Cooperation Agency (JICA) Group Training Project

Commissioned by JICA, GEC has continued to offer the following five group training courses while enhancing their respective curricula. The courses target administrative officials and engineers in developing countries. Participants must present their "Country Report" at the start of the session and an "Action Plan" at the end of training in all training courses.

Training period	Nationality of participants	Main course contents:
1) Heavy Metal and Other Hazardous Substance Pollution Control		
June 7 - July 29, 2004	Seven trainees from Brazil, Chile, China, Egypt, Indonesia, the Philippines and Thailand	<ul style="list-style-type: none"> •Lectures <ul style="list-style-type: none"> - Introduction to heavy metal pollution - Air and water pollution control measures etc. •Practical training <ul style="list-style-type: none"> - Sampling and analysis of air and water - Analysis of heavy metals in soil, waste etc. •Facility tours <ul style="list-style-type: none"> - Refuse incineration plant - Sewage treatment, water purification plant etc. <p>Purpose: to develop well-qualified human resources who are able to collectively evaluate emission sources and environmental contamination by poisonous metals and harmful chemical substances, and to establish preventive measures against environmental pollution by poisonous metals etc.</p>
 <p>Phoenix Kobe reclaimed land site</p>		
2) Environmental Policy and Environmental Management Systems		
May 24 - July 6, 2004	Nine trainees from Bulgaria, East Timor, Gabon, Indonesia, Madagascar, Malaysia, Palestine, Peru and Surina	<ul style="list-style-type: none"> •Lectures/Discussion/Tours <ul style="list-style-type: none"> - Global environmental preservation, sustainable development and EMS - International initiatives to protect the environment - Joint action by governments, industry and citizens etc. <p>Purpose: to master pragmatic and practical methodologies, such as the framing of environmental policies, techniques of the environmental assessment, guiding corporation policies, and methods of enlightening citizens.</p>
 <p>Lecture at the JICA Osaka International Centre (OSIC)</p>		
3) Urban Solid Waste Management II		
August 23 - October 15, 2004	10 trainees from Uruguay, Cuba, Colombia, Thailand, Papua New Guinea, the Philippines, Mozambique, Morocco, Mongolia & Jordan	<ul style="list-style-type: none"> •Lectures <ul style="list-style-type: none"> - Outline of waste management - Processing of domestic/industrial wastes etc. •Practical training <ul style="list-style-type: none"> - Analysis of composition of waste - Practice in designing a landfill site etc. •Facility tours <ul style="list-style-type: none"> - Recycling plant, Final disposal sites etc. <p>Purpose: To develop leaders and core people who can play a major role in making solid waste treatment plans and in implementing treatment businesses in their countries.</p>
 <p>Lecture at GEC</p>		
4) Air Pollution Control II		
September 13 - December 3, 2004	Eight trainees from Chile, Czech, Egypt, Iran, Jordan, Morocco (2 participants), Republic of Peru	<ul style="list-style-type: none"> •Lectures <ul style="list-style-type: none"> - Basic knowledge on air pollution - Air pollution control technology etc. •Practical training <ul style="list-style-type: none"> - Flue gas desulfurization technique - Environmental management technology etc. •Facility tours <ul style="list-style-type: none"> - Power plant, Refuse incineration plant etc. <p>Purpose: to raise engineers and administrative officials having leadership and technique capable of taking comprehensive and planned counter measure against air pollution.</p>
		

5) Environmental Management in the Republic of Cuba

January 17 -
February 10,
2005

10 trainees from
Cuba

- Lectures
 - Environmental management in Japan
 - Pollution control measures etc.
- Practical training
 - Waste water and solid waste sampling and analysis etc.
- Facility tours
 - Sewage treatment plant, Incineration plant etc.



Tour of Nanohana Project in Shiga

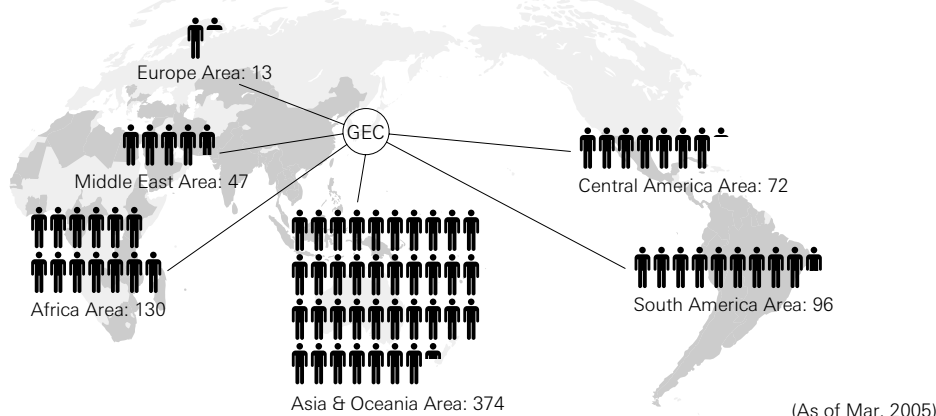
Purpose: to cultivate an ability to formulate a comprehensive environmental management plan, taking into consideration measures against public nuisance caused by industry and urban life as well as sustainable development and environmental conservation.

GEC Networking Project for Former Training Participants

In order to provide a follow-up framework for former JICA training participants and to seek the needs of developing nations, GEC operates the GEC Network, a website solely for former training participants. The Centre is currently working to strengthen the network via the Internet-based information exchange. In addition to making the Information Board and JICA Training Texts available online, the Country Reports, other submitted reports and photos taken throughout the courses were also posted online in April 2004.

Upgrading the GEC Participants Network

1998	GEC commences one-day seminar and publication of newsletters
May 2001	Full-scale operation of the GEC Information Board begins
April 2002	GEC Network expanded to include four environmental JICA training courses offered by the Osaka City Government.
May 2003	JICA training course curriculum text made available online
April 2004	Country Reports, other reports and Photo Album made available online



Environmental Management in the Republic of Cuba

In the 1992 "Earth Summit", Cuba publicized its environmental policy and has been improving its legal system and administrative mechanisms, and cultivating human resources in the environmental field.

Therefore, JICA focused on the environment as a key area for collaboration and set up this course as a new country-focused training course in cooperation with GEC. It will accept 50 participants for 5 years starting from 2001.

One Day Seminar

Held in countries where Network membership is high, the theme of each seminar is intended to reflect the specific needs of that country.

Environmental Policy & Environmental Management System Course

In the course, GEC conducts six day-long training using texts approved by the UK-based Institute of Environmental Management and Assessment (IEMA). On the exam on the final day, participants can obtain a maximum of five points of the ten points required to obtain the IEMA qualification of Associate Environmental Auditor.

Dissemination of Environmental Management Systems (EMS)

EMS Training Courses

As in the previous year, GEC conducted the "Internal Environmental Auditor Training Course" twice in 2004, and the "EMS Human Resource Training Course", which targets municipalities and their affiliated organisations, was conducted 10 times.

Dissemination of EMS Overseas

Among the five JICA courses it currently offers, GEC has upgraded its EMS lectures to facilitate the spread of EMS overseas.

GEC Publications

Refer to page 19

World Environment Day 2004 Photo Exhibition

an event held in conjunction with UN World Environment Day on 24 October at Eco Museum of Osaka



Joint Overseas Seminar

Refer to page 6 for related article

- Forum participants: Approx. 450
- UNEP/GEC Session participants: Approx. 120

UNEP Special Envoy

Ms. Tokiko Kato

Ms. Tokiko Kato, who is currently the sole UNEP Special Envoy, has achieved a number of successes through participation in UNEP-affiliated events and encouragement of local residents involved in environmental conservation activities.

A report of Ms. Kato's activities as Special Envoy is available on the GEC website.



Ms. Tokiko Kato's mini-concert at Kobe Eiko Church



Harvesting apricots in Wu Cheng, Datong (China).

Promotion of IETC Policies & Joint PR

Promotion of EMS

GEC provided opportunities to promote IETC policies by utilizing IETC's EMS Training Kit in the JICA training courses.

Joint PR Projects

GEC carried out PR work in order to expand awareness of IETC's activities by including articles relating to IETC projects in its newsletters and website. The Centre also hosted the World Environment Day 2004 Photo Exhibition from 1 to 31 October 2004 under the theme of "Seas, Oceans and Watershed Links" to celebrate IETC's tenth anniversary.

Joint Overseas Seminar

GEC was a joint host of the Environmental Technology Forum in Thailand where it collaborated with IETC to present the UNEP/GEC Session entitled "Environmentally Friendly Small and Medium-sized Enterprises" in order to promote the transfer of ESTs.

The session also featured presentations from Thai government officials and ASEAN Secretariat personnel involved in disseminating ESTs in the Asian regions under the theme of Dissemination of ESTs and the Transfer of Technology to Small to Medium-sized Businesses.



UNEP/GEC Session in Thailand

Support for UNEP Special Envoy Activities

At the commission of the Ministry of the Environment of Japan, GEC provided support for UNEP Special Envoy Ms. Tokiko Kato as she visited areas of environmental interest both in Japan and abroad and provided encouragement for the work of NGOs.

In 2004, Ms. Kato carried out international exchanges through music and inspected local activities taking place at the grass-roots level with a visit to India in May and China in July with attendance at the opening ceremony of an environment leadership programme jointly held by UNEP and Tongji University. In addition, Ms. Kato performed a mini-concert in conjunction with the World Conference on Disaster Reduction held in Kobe from 18 to 22 January 2005. She introduced the activities taking place in the countries she visited while an official from the UNEP headquarter called attention to the importance of environmental conservation in preventing disasters.



Visit to India (Ms. Kato with children, Ahmedabad, India)

Activities Highlights of Ms. Kato, UNEP Special Envoy

Date	Countries Visited
October 30, 2000	Appointed as UNEP Special Envoy
April 17-27, 2001	Visit to Thailand and Indonesia
August 10-19, 2001	Visit to Mongolia
April 6-13, 2002	Visit to Korea
June 2-4, 2002	Attended the "WSSD PrepCom 4 Meeting" on sustainable development in Bali, Indonesia
August 22-31, 2002	Attended and held a concert at "WSSD" held in Johannesburg, South Africa
May 13-24, 2003	Visit to Uzbekistan, Kirghiz Republic
September 8-18, 2003	Visit to Republic of the Fiji Islands, Kingdom of Tonga

Hosting of Seminars and Symposia

International Symposium for UNEP/DTIE/IETC 10-year Celebration Environmentally-Sound and Human-Centred "Machi-zukuri" Urban Planning

On 7 May 2004, GEC and IETC co-hosted an international symposium at International House, Osaka, to mark the tenth anniversary of IETC's inception under the theme of Environmentally-Sound and Human-Centred "Machi-zukuri" Urban Planning.

UNEP Deputy Executive Director Mr. Kakakhel emphasized the need to shift technology away from mass production and mass consumption towards that which does not cause a depletion of natural resources, while Ministry of the Environment's Vice Minister for Global Environmental Affairs Mr. Hamanaka stated the importance of spreading Japan's global warming mitigation technology to the world through IETC. In the panel discussion held after the keynote speeches, panelists gave presentations on and discussed urban greening, energy-conserving and other technologies, the exchange of said technologies and strategies to disseminate them to the world and especially Asia.

CDM Forum 2004

Since 2000, GEC has co-hosted a CDM Forum every year with the Ministry of the Environment in order to promote understanding and participation in CDM/JI projects. The 2004 forum was held in Tokyo on September 14 and Osaka on September 17.

PR Activities

In order to introduce its activities to a wider audience, GEC regularly publishes and distributes newsletters and annual reports in both English and Japanese.

GEC also conducts PR activities by presenting exhibition booths at several events.

GEC is also working to spread awareness of its projects and deepen understanding of global warming among schools through the operation of the Global Warming Classroom Laboratory in Osaka prefectural primary schools, which it began in 2003 at the commission of the Osaka Environmental Counselors Association (OECA).

Upkeep of the Global Environment Library

The library has been open to the public since 1997 and offers a range of references on the global environment, particularly UNEP-related publications. GEC publications (newsletters and annual reports) and other publications (project reports, technical materials etc) are organized and posted on the website, partly in PDF format. The collection at March end numbered 5,681 publications (including 319 UNEP-related references).

Maintenance and Enhancement of Information Systems

Carrying on from 2003, GEC is involved in the ongoing maintenance and upgrading of its information systems with the cooperation of IETC. In 2004, the Centre updated its server and renewed web pages to improve the security and user-friendliness of its website GEC Participants Network (GEC Network).

Provision of Facilities to IETC

GEC continued to provide support for IETC facilities in 2004.

International Symposium for UNEP/DTIE/IETC 10-year Celebration

Participants: Approx. 400



CDM Forum 2004

Participants:
Tokyo - Approx. 380;
Osaka - Approx. 120

Global Warming Classroom Laboratory

held 23 times over 2004
(878 participants)



Library Use

The library is open for use on Wednesday and Friday from 10:00am to 12:00pm and 13:00pm to 17:00pm by prior booking. Books are not available for loan, but can be viewed and copied within the library (As of September 2005).



Projects for Fiscal Year 2005

GEC will make even greater efforts and contribute to developing nations tackling environmental conservation in the hope that the 21st Century will develop into a Sustainable Society. It plans to achieve this by supporting IETC and promoting international cooperation to foster environmental conservation while drawing upon the experience and dynamism that lies within private enterprise in the Kansai region and the rest of Japan.

GEC's IETC support projects include its commission to implement the Training Course on ESTs for Drinking Water Provision as a part of the UNEP Iraqi Marshland Project. The Centre will also continue field surveys relating to the formation and administration of Eco-towns to support Eco-town projects in developing nations. Meanwhile, in order to promote the spread of information on ESTs and technology transfer, GEC is continuing to overhaul its environmental technology database NETT21.

Building upon the results in FY2004, GEC will promote international cooperation towards environmental conservation in Thailand's Tha Chin River basin, and will support the establishment of a partnership between residents, universities and government across four provinces.

GEC will continue not only to conduct but also enhance the five training courses and promote the GEC Network Project for Former JICA Training Participants through the active use of the GEC website.

In addition to continuing studies and operations to foster the Clean Development Mechanism (CDM) and Joint Implementation (JI) projects, GEC will also gather CDM/JI-related knowledge and information and distribute it to contribute to the mitigation of global warming.

GEC's work to disseminate awareness of Environmental Management Systems (EMS) will include the continued operation of the Internal Environmental Auditor Training Course.

International Cooperation: Technical Support for Developing Countries

1) Promoting IETC's activities of disseminating information on Environmentally Sound Technologies (ESTs) and Technology Transfer

- 1) Implementation of commissioned projects to provide drinking water through ESTs as part of the UNEP Project on Support for Environmental Management of the Iraqi Marshlands
- 2) Implementation of Eco-town surveys
- 3) Hosting of "Thematic Session on Environmentally Sustainable Industrial Development and the Concept of Eco-Towns in the Asia Pacific Region"
- 4) Provision of information for IETC's EST Information System
- 5) Updating of GEC Sanitation Programme (GESAP)

2) International Cooperation in Developing Countries

- 1) Support for Local Activities for the Restoration of River Environments in Thailand
In 2005, GEC will begin full-fledged support for the establishment of a partnership among interested parties in four provinces to conserve the Tha Chin River.

3) Contribution to Measures for Mitigation of Global Warming

- 1) CDM/JI Projects
 - Conducting CDM/JI Feasibility Study (FS) Programme and CDM Modelled Validation Programme to discover promising CDM/JI projects and accumulate knowledge.
 - Hosting symposia to report on FS projects
 - Attending the COP and CDM Executive Board Meetings to both collect and provide information.
- 2) Study on Reduction of Greenhouse Gases using CDM and other Kyoto Mechanisms
 - Offering support to Osaka-based companies through the Osaka CDM Network by provision of CDM data and project participation
- 3) Demonstration of New Energy Systems: GEC is continuing its work of collecting data obtained from the solar power generator and other equipment in an attempt to test their long-term durability and verify the demonstration facility as a new energy system.

Training of Environmental Technology

1) Human resource development in developing nations

- 1) JICA Training Projects: 5 courses
 - Heavy Metal and Other Hazardous Substance Pollution Control
 - Environmental Policy & Environmental Management Systems
 - Urban Solid Waste Management
 - Air Pollution Control
 - Environmental Management in the Republic of Cuba
- 2) GEC Networking Project
GEC will reinforce its network capability by information-exchanges with former participants.

2) Dissemination of Environmental Management Systems (EMS)

- 1) EMS Training Courses
 - Operation of training programs such as the "Internal Environmental Auditor Training Course", and "On demand seminars" for municipalities and private enterprise
 - EMS Implementation Course: targeting the municipalities and their affiliates, this course teaches trainees how to set up EMSs.
- 2) Overseas Dissemination of EMS
Through its JICA training courses, GEC is working to spread the adoption of EMS in developing countries.
- 3) Introduction of EMS within GEC
GEC established an EMS within its office in July 2001, and intends to continue its operation into the future.

PR & Educational Activities

1) Promotion and Joint PR of IETC Policies

- 1) Dissemination of EMS: GEC promotes IETC policies by introducing IETC's EMS Training Kit in the JICA training courses.
- 2) GEC works to publicize IETC projects by placing related articles in its publications. GEC also collaborates in hosting a photo exhibition to introduce UNEP activities. In addition, GEC will co-manage a booth at the New Earth 2005.
- 3) Co-hosting Seminars Abroad: The Centre hosts seminars to disseminate EST information systems such as ESTIS and EMS to promote the spread of information on ESTs in developing nations

2) UNEP Special Envoy Project *

GEC supports the environmental activities of the UNEP Special Envoy Ms. Tokiko Kato both in Japan and abroad. It also publishes special leaflet to commemorate Ms. Kato's fifth year in this role.

3) Maintenance and Enhancement of Information Systems

- 1) Efforts to maintain and upgrade information systems
- 2) Upgrading and improvement of the Japan-based environmental technology information database (NETT21)
- 3) Continued work to improve the security and user-friendliness of GEC Network web pages
- 4) Updating GEC home page

4) Seminars and Symposia

GEC carries out PR towards local residents through collaboration with affiliated organisations, hosts CDM symposia and operates exhibits at environmental exhibitions.

5) PR Activities

- 1) Provision of information on GEC activities and the environment over the Internet
- 2) Publication of GEC newsletters and annual reports
- 3) Accepting tours of GEC facilities
- 4) Providing education on global warming mitigation measures in schools

6) Management of the GEC Library

Upgrading and managing library facilities

Provision of facilities to IETC

Providing facilities and equipment to IETC

* This support indirectly contributes to IETC by raising the profile of UNEP in Japan and the Asia-Pacific region.

Overview of the UNEP/DTIE/IETC

Name	United Nations Environment Programme (UNEP) Division of Technology, Industry and Economics (DTIE) International Environmental Technology Centre (IETC)	
Date of Conclusion of the Agreement between Japanese Government and UNEP	October 30, 1992	
Mandate	The main role of the IETC is to promote the adoption, application, and operation of Environmentally Sound Technologies (ESTs) to address urban environmental problems such as sewage, air pollution, solid waste, and noise, and the management of freshwater to developing countries and countries with economies in transition.	
Approach	Osaka Office	management of urban environmental issues
	Shiga Office	management of freshwater resources
Contacts	Osaka Office	2-110 Ryokuchi-koen, Tsurumi-ku, Osaka 538-0036 Japan tel: +81-6-6915-4581 fax: +81-6-6915-0304
	Shiga Office	1091 Oroshimo-cho, Kusatsu-city, Shiga, 525-0001 Japan tel: +81-77-568-4581 fax: +81-77-568-4587
	e-mail	ietc@unep.or.jp
	IETC homepage	http://www.unep.or.jp/
Posts	Director Deputy Director Senior Liaison Officer Programme Officers (3) Administrative/Fund Management Officer (as of October 2005)	
Programme Activities (implemented in 2004)	<ul style="list-style-type: none"> • Project for Environmental Management of the Iraqi Marshlands: <ul style="list-style-type: none"> - Roundtable (Amman) - Training Courses on Phytotechnology for Wetland Management (Cairo), on sustainable Sanitation (Osaka) and on Water Quality Management (Shiga) - Iraq News (Japanese edition) • Development and maintenance of the EST Information System (ESTIS) <ul style="list-style-type: none"> - EST Information System (ESTIS) training workshop (Hanoi) • Disaster Management • Symposia, seminars, etc. <ul style="list-style-type: none"> - Working session on sustainable cities at the Globe 2004 (Vancouver) - International Symposium for IETC 10-year Celebration (Osaka and Shiga) - World Environment Day Photo Exhibition 2004 (Osaka and Shiga) - International Symposium on Environmentally Sound Technologies and Sustainable Urban Management (Kawasaki) • Newsletter <ul style="list-style-type: none"> - "IETC's Voice" (Japanese edition) 	

Board Members of the Global Environment Centre Foundation

President	KUMAGAI, Nobuaki	Chancellor, University of Hyogo Professor Emeritus, Osaka University
Executive Director	MASUDA, Takafumi	Former Director General /Director of Environment Division, Environment and Sewerage Bureau, Osaka City Government
Directors	AKIYAMA, Yoshihisa KATAYAMA, Toru MATANO, Kagechika MATSUSHITA, Masayuki MORISHIMA, Akio NOMURA, Akio OHTA, Fusae SEKI, Junichi	Chairperson, Kansai Economic Federation (Kankeiren) Executive Managing Director, Overseas Environmental Cooperation Center Special Adviser, IKEA Japan K.K. (Former Ambassador to Sweden) Chairperson, Kansai Association of Cooperate Executive Chair of the Board of Director, Institute for Global Environmental Strategies Chairperson, Osaka Chamber of Commerce and Industry Governor of OSAKA Mayor of OSAKA
Auditors	KUSAKAWA, Taizo KONISHI, Toshiaki	Director General, Environment, Agriculture, Forestries and Fisheries Department, Osaka Prefectural Government Treasure of Osaka City
Councilors	IGOSHI, Masashi KANEKO, Kumao KAWAJI, Kenichiro KOBAYASHI, Shoichiro MIWA, Kazuo MIZUNO, Minoru OHTSUKA, Ryutarō ONOGAWA, Kazunobu SHIBANO, Hirofumi SUZUKI, Yutaka YAMAMOTO, Kenjiro	Deputy Mayor of Osaka Diplomatic Commentator/President, Japan Council on Energy, Environment & Security Managing Director, Osaka International Centre of the Japan International Cooperation Agency Advisor, Kansai Electric Power Co., Ltd. Vice-Governor of Osaka Professor, Graduate School of Engineering, Osaka University President, National Institute for Environmental Studies Director, United Nations Centre for Regional Development President, Osaka Gas Co., Ltd. Vice-President, University of Hyogo Chairperson, Osaka City Environment Council
Board of Technology and Planning	AMANO, Akihiro FUJITA, Masanori HINO, Yasuo KATAYAMA, Shozo KOSAKA, Akira MAEDA, Yasuaki MASUDA, Noboru MITSUOKA, Kazuhiko MIYAKE, Hidetaka MORIOKA, Tohru PAK, Pyong Sik SERITA, Kentaro SHINOZAKI, Yukiko TAKEDA, Nobuo WATANABE, Masataka	Director, Kansai Research Center, Institute for Global Environmental Strategies Director, Kochi National College of Technology Professor, Graduate School of Engineering, Osaka City University Chairman, Environmental Committee, The Osaka Chamber and Commerce and Industry Professor, Faculty of International Public System, Osaka School of International Public Policy, Osaka University Professor, Chemistry of Advanced Materials, College of Engineering, Osaka Prefecture University Professor, College of Agriculture, Osaka Prefecture University Director, Environment Division, Environment and Sewerage Bureau, Osaka Municipal Government Executive Director, Urban Environment Office, Environment, Agriculture, Forestries and Fisheries Department, Osaka Prefectural Government Professor, Graduate School of Engineering, Osaka University Associate Professor, Graduate School of Engineering, Osaka University Professor, Department of Law, Faculty of Law, Aichi Gakuin University President, City-Life Institute Professor, Graduate School of Engineering, Kyoto University Professor, Faculty of Environmental Information, Keio University

(As of July 1, 2005, honorific omitted; names in alphabetical order [Surname])

Publications List

Publications in 2004

Publication name	Contents	Size/ pages/ date of publication
CDM Manual for Project Developers and Policy Makers (Japanese / English)	Outlines the latest developments in CDM/JI frameworks, CDM Executive Board, COP etc. Drafted at the commission of Ministry of the Environment.	<ul style="list-style-type: none"> • Japanese version: A4/183 pages/August 2004 • English version: A4/90 pages/December 2004
CDM Methodologies Guidebook (Japanese / English)	A guidebook to provide know-how on drafting quality CDM methodology. Drafted at the commission of Ministry of the Environment.	A4/100 Pages November 2004

* CDM Projects: refer to page 10

CDM Forum

Contents	Size/ pages/ date of publication
Pamphlet distributed at the forum (including reports of 2003 CDM/JI Feasibility Study Group)	A4/49 pages September 2004

Periodicals

Publication name	Contents	Size/ pages/ date of publication
GEC NEWSLETTER No.26 (Japanese edition)	An introduction to the activities of GEC	A4/8 pages August 2004
GEC NEWSLETTER No.27 (Japanese edition)	An introduction to the activities of GEC	A4/8 pages February 2005
GEC Newsletter No.16 (English edition)	An introduction to the activities of GEC	A4/4 pages October 2004
GEC Newsletter No.17 (English edition)	An introduction to the activities of GEC	A4/4 pages March 2005
Global Environment Centre Foundation Annual Report (Japanese edition)	Report on projects of GEC for fiscal year 2003	A4/24 pages October 2004
Global Environment Centre Foundation Annual Report (English edition)	Report on projects of GEC for fiscal year 2003	A4/20 pages November 2004

• Series of NETT21:

Database on New Environmental Technology Transfer in the 21st Century by GEC, and number of data listings for each topic.

Database on:	• Air Pollution Control Technology in Japan: 128
	• Waste Treatment Technology in Japan: 98
	• Water Pollution Control Technology in Japan: 96
	• On-Site Green Technique (OGT) in Japan: 83
	• Air Pollution Continuous Monitoring Technology in Japan: 83
	• Water Pollution Continuous Monitoring Technology in Japan: 53
	• Cleaner Production Technology in Japan: 190
	• Energy-Saving Technology at Business-Related Buildings: 94
	• Soil and Groundwater Contamination Survey and Countermeasure Technologies: 37
	• Japanese Advanced Environmental Equipment (provided by JSIM): 621

Total: 1,483 data listings (as of September 2005, complete data available in English via the GEC Website)

• Visitors to the Global Environment Centre Foundation: 140 (1 April 2004 - 31 March 2005)

Global Environment Centre Foundation Annual Report 2004

Date of issue: January 2006

Issued by Global Environment Centre Foundation (GEC)

2-110 Ryokuchi-koen, Tsurumi-ku, Osaka 538-0036 Japan

Tel: +81-6-6915-4121 Fax: +81-6-6915-0181 Web page address (URL): <http://gcec.jp>

© Global Environment Centre Foundation (GEC), 2006

This annual report is printed on kenaf paper using soybean ink.



Global Environment Centre Foundation

2-110 Ryokuchi-koen, Tsurumi-ku,
Osaka 538-0036 Japan

TEL: +81-6-6915-4121

FAX: +81-6-6915-0181

Homepage: <http://gec.jp>

20