

A large, stylized green leaf graphic with intricate vein patterns, oriented diagonally from the bottom left to the top right, set against a solid green background.

# **ANNUAL REPORT 2003**

**THAILAND ENVIRONMENT INSTITUTE**

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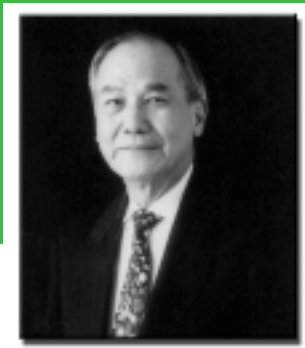
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# MESSAGE

## Chairman of the Council of Trustees



Today, the Thailand Environment Institute (TEI) takes great pride in celebrating its 10th anniversary. The occasion reflects the Institute's long-term commitment to raising environmental awareness among the Thai people of all age groups and levels of society, particularly the younger generation.

TEI has played a prominent role in Thailand's environmental conservation, from a grassroots to a national and even international level. Being environmentally aware, TEI strives to instill good environmental values, develop respect for the environment, discourage excessive consumption of resources and implement a number of educational programmes. As a part of its effort, TEI also helps empower the local communities, enabling them to actively participate throughout the various management phases.

In addition, the Institute plays a catalytic role in promoting sustainable development through various important sectors. Together with the business sector, TEI has significantly contributed towards the formulation of the Thailand Business Council for Sustainable Development (TBCSD) since 1993. TBCSD has also helped promote ISO14001 and Thai green labeling activities in the Thai business and industry sectors.

On this special occasion, I would like to take this opportunity to thank the Thai people at all levels for their valuable support over the past 10 years. TEI is committed to promoting opportunities for active individual involvement in environmental protection, while providing a wide range of programmes for the development of Thai society.

Anand Panyarachun  
Chairman, Council of Trustees  
Thailand Environment Institute

### TEI Council of Trustees

(YEAR 2003)

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Anand Panyarachun

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Snoh Unakul, Ph.D.

#### Vice Chairman

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Pongvipa Lohsomboon, Ph.D.

#### Secretary

Prof. Thongchai Panswad, Ph.D.

#### Assistant Secretary

Chaiyod Bunyagidj, Ph.D.



## Chairman of the Executive Board of Directors

As expected, the past year proved to be a highly significant one for the Institute. In addition to celebrating its tenth anniversary, TEI was finally able to move into its own building located in one of the largest housing estates in Bangkok. Because of lack of funding, much work remains to be done to make the building a truly outstanding example of good environmental conservation. Actually, 2003 saw a rather large surplus in financial resources, but a policy decision has been made to set up a 'Fund for Social Services' with an initial funding of 4.1 million Baht. This development is of special significance in that it is the first time that TEI will be able to use its own funds for the direct benefits of communities in a comprehensive manner. The Institute will try to address basic problems of rural communities including income generation, health, social and environmental matters. The first project will be ready to start later this year. It will essentially be in the nature of a process of 'learning by doing.' In addition to supporting selected communities in their effort at self-development, TEI teams will also try to learn more about factors affecting integrated development, the knowledge gained will be essential for following phases of the project involving sustainability and replication.

The Institute is fortunate in having obtained the services of Professor Sanit Aksornkroe as its new President. Professor Sanit's extensive experience in both academic and field operations will be particularly valuable to the overall work plan of the Institute.

Considering the dedication of its staff and the able leadership of both the Board and the Council, I am confident that the next year will turn out to be another successful one for the Institute in contributing to environmental development of the country.

*Prof. Phaichitr Uathavikul, Ph.D.  
Chairman, Executive Board of Directors  
Thailand Environment Institute*

### **TEI Executive Board of Directors** (YEAR 2003)

#### **Chairman**

**Prof. Phaichitr Uathavikul, Ph.D.**

#### **Vice Chairman**

**Kasem Snidvongs**

#### **Members**

Krissanapong Kirtikara, Ph.D.  
Prof. Thongchai Panswad, Ph.D.  
Pree Burasiri  
Mechai Viravaidya  
Prof. Yodhathai Thebtaranonth, Ph.D.  
Likit Theersteerasukdi  
Sirithan Pairoj-Boriboon  
Sivaporn Dardarananda  
Sophon Suphamong  
Prof. Ekavidiya Nathalang, Ph.D.  
Channiem Vorratnchaiphon, Ph.D.  
Kamonnuach Sombunthawong  
Qwanruedee Chotichanathawong, D. Eng.  
Pongvipa Lohsonboon, Ph.D.

#### **Secretary**

**Chaiyod Bunyagidj, Ph.D.**

President

# MESSAGE



Annual reports are written a year in retrospect. Hence I am writing these opening words for the TEI 2003 Annual Report in June, 2004. I took up the position of President for TEI in January 2004. I am pleased to have the opportunity to highlight some of TEI's main achievements in 2003 but I do not take credit for them. All of the achievements reported here came from work done under the direction of my predecessor Professor Thongchai Panswad, Ph.D., who was President between October 2000 and September 2003. Professor Thongchai worked hard to ensure the future of TEI right up to the end of his appointment, and he has left a legacy to be proud of. I would like to acknowledge here the enormous amount of work he did in building up TEI to its present position.

Reviewing the contents of this annual report, I see that in 2003 TEI has accomplished a great deal. Breaking with tradition, the stories in the following pages highlight some of our work that has had the greatest impact over the year.

Another issue of great pride is that TEI has now owned its office building. This six-storey building in the Muang Thong Thani area is more comfortable and convenient and we have made an effort to maximize the efficiency and effectiveness of the space. Some selected tropical trees were planted in a specific garden around the building, representing tropical forest ecosystem. The garden will thus not only be used for heat protection, but also for public learning of natural forest ecosystem. Later this year, we will also set up an Environmental Learning Center on the first floor of the building, which will hopefully be more beneficial to the public, especially students, and to the community.

There are huge challenges ahead, but TEI is in good shape to meet them, thanks to the skills and expertise of our staff and associates. During the year, they have given their utmost to ensure that progress has been made on every front. We are grateful for that hard work and commitment.

Prof. Sanit Aksornkoe, Ph.D.  
President  
Thailand Environment Institute

## TEI Management Committee (YEAR 2004)

**Prof. Sanit Aksornkoe, Ph.D.**

**President**

**Chaiyod Bunyagidj, Ph. D.**

**Vice President**

Anpai Harakunarak, Ph.D.

*Director, Environmental Education and Human Resources Development Center*

Chamniem Vorratnchaiphan, Ph. D.

*Director, Grassroots Action Program*

Kamonnuch Sombunthawong

*Director, Administration and Finance Department*

Pongvipa Lohsomboon, Ph. D.

*Director, Business and Environment Program*

Qwannuedee Chotichanathawewong, D. Eng.

*Director, Energy, Industry and Environment Program*

Smrudee Nicro, Ph. D.

*Director, Urbanization and Environment Program*

## TEI Management Committee (YEAR 2003)

**Prof. Thongchai Panswad, Ph.D.**

**President**

**Chaiyod Bunyagidj, Ph. D.**

**Vice President**

Chamniem Vorratnchaiphan, Ph. D.

*Director, Grassroots Action Program*

Kamonnuch Sombunthawong

*Director, Administration and Finance Department*

Pongvipa Lohsomboon, Ph. D.

*Director, Business and Environment Program*

Qwannuedee Chotichanathawewong, D. Eng.

*Director, Energy, Industry and Environment Program*

Sarunphong Articharte

*Director, Environmental Education and Human*

*Resources Development Center*

Smrudee Nicro, Ph. D.

*Director, Urbanization and Environment Program*



Established in 1993, the **Thailand Environment Institute (TEI)** is a non-profit, non-governmental organization working for the conservation of natural resources and environment in Thailand and in the region. TEI advocates a participatory approach to shared environmental responsibility by working closely with government, private sector, local communities, civil society partners, as well as international organizations. TEI helps to formulate environmental directives and link policy with action to encourage meaningful environmental progress in Thailand. In this way, and by serving as a reliable and up-to-date information and knowledge resource, TEI works to advance sustainable development in the country, in the Asia-Pacific region, and beyond.

## Organizational Structure year 2004



# Overview

## Vision

The vision of the Thailand Environment Institute is ...

*"... to be a center of excellence in environmental issues; a source of up-to-date and reliable data; equipped with highly qualified personnel able to promote initiatives towards the sustainable development of our natural resources and the environment; and as such well recognized both locally and internationally."*

Urbanization and Environment Program



Somrudee Nicro, Ph.D.  
Director

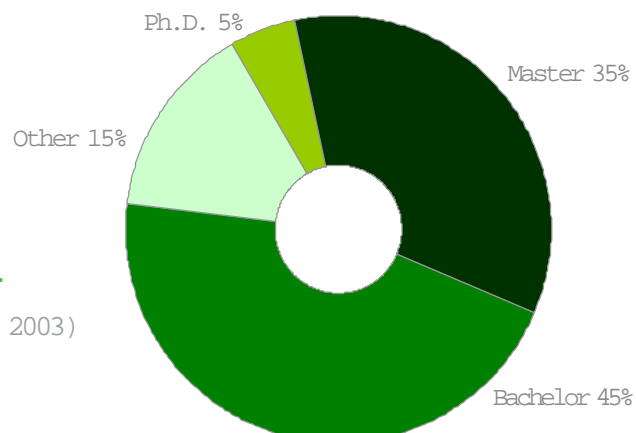
- Sustainable Cities
- Environmental Policy
- The Access Initiative
- Public Participation
- Environmental Strategy

## Mission

The Thailand Environment Institute will serve as a respected research institute, a center of high-quality information and meaningful action committed to sustainable human development,

- by conducting research activities within and outside the country to benefit the conservation of natural resources and the environment, and by supporting and participating in the practical application of the research findings.
- by establishing up-to-date and reliable information systems and through providing for extensive dissemination of quality information on environmental issues.
- by developing and enhancing the knowledge and capabilities of the staff so that they can be proud of their work and their organization.
- by producing quality research publications to be made available to relevant institutions and the general public, both locally and internationally.
- and further, in line with its social obligations towards the Thai society, TEI will undertake environment related capacity building activities among the more vulnerable groups of society in support of the national poverty alleviation goals and within the overall framework of sustainable development.

## Staffing (as of December 2003)









# 2003

Program

Performance

Reports



## Project Highlights

### Green Labeling

The Green Label is an environmental certification awarded to selected products that have demonstrated less harmful impacts on the environment, in comparison with other products fulfilling the same function. By promoting the Green Label concept, the Thai Green Label scheme was launched in 1994 to provide reliable information and guidance to distinguish genuine environmentally-friendly products and to encourage the production of green products, the use of clean technologies, energy conservation and recycling.

Accomplishments in the eleventh year of the project involved the criteria development, and promotion of the green label products. At present, there are 36 established criteria available for the award of the Thai Green Label. Applications for the use of the Green Label have already been made for 14 product categories, by 30 companies for 142 brands/models. As the year has progressed, the "Thai Green Label" has gradually become a trademark for the environment

care of products both for companies and for environmentally aware consumers.

### Research Study on the Impact of WEEE and RoHS Directives on the Electrical and Electronic Industries in Thailand

In collaboration with the Electrical and Electronics Institute and the Ecological Economic Center of Chulalongkorn University, TEI has conducted this one-year research project aiming to identify and evaluate impacts of EU's Directives: WEEE and RoHS, on 10 exported electrical and electronic products of Thailand. The evaluation includes impact on technology, competitiveness, foreign investment, cost of production and domestic consumers. The results of the project indicate that production cost will be increased and Thailand may face an e-waste problem if relevant laws and regulations are not in place. Owing to lack of awareness on WEEE and RoHS directives and solution technology, the competitiveness of Thai suppliers, especially SMEs, may decrease.

As a result, transistors, microwaves and computer accessories may lose their market share in EU. In addition, the project evaluates environmental impacts occurred during the entire life cycle of air-conditioners and televisions as a case study.

### Life Cycle Inventory for Cement Product and Steel Making toward Sustainable Development

As the Life Cycle Assessment (LCA) plays an increasing important role as an environmental management tool to support the decision-making process in various organizations, the project, supported by the Thailand Research Fund, aims to support and enhance LCA research studies in Thailand by building the life cycle inventory of cement product and steel making. Environmental impact of cement product through its entire life cycle from mining, production, and transportation to distributor has also been evaluated. The inventory and environmental impact of cement product has been demonstrated as an environmental product

# Business & Environment

declaration (type 3 eco-label).  
Their life cycle inventories will  
be used as a background  
database for further studies on  
LCA of other products.

## Projects in 2003

1. Green Labeling
2. The Thailand Business Council for Sustainable Development (TBCSD) Award
3. Capacity Building on Business Competitiveness for TBCSD members
4. Thailand Network of Eco-efficiency and Cleaner Production (TNEC)
5. Capacity Building for Regional Environmental Management Component 2: Strengthening Capacity of the Center for Transfer of Cleaner Technology
6. Achievements of the CT Activities for CIU and Assessment of their Applicability in the Future Urban Environment Management (UEM) Program
7. Toolkit Development for Implementing Integrated Resources Management in Schools
8. Capacity Building on Cleaner Production in Thai Food Industries: an "Extended Approach" to Promote Socially Responsible Environmental Management and Increase Market Opportunities
9. Training-lead Consulting on Environmental Management System (ISO 14001)
10. Capacity Building on Environmental Management System (ISO 14001) in Standard Chartered - Nakornthon Bank
11. Life Cycle Inventory for Electricity Grid Mixes in Thailand - Phase III
12. Life Cycle Inventory for Cement Product and Steel Making towards Sustainable Development
13. Study on Impact of WEEE and RoHS Directives on Electrical and Electronic Industries in Thailand
14. National Case Study on Environmental Requirements, Market Access and Competitiveness in the Leather and Footwear Sectors
15. Development of the National Sustainable Development Indicators

The Business and Environment Program (BEP) fulfils the Institute's objective of promoting a leadership role among the business community regarding environmental management. The primary goal of the program is to encourage the business community to actively participate in solving Thailand's environmental challenges. This can be achieved through the adoption of sustainable practices which minimize the use of natural resources, pollution prevention, and through the production of 'green products' which have a minimal impact on the environment. BEP is successfully implementing project activities of the Thailand Business Council for Sustainable Development (TBCSD), the nationwide Green Labeling program, environmental management (ISO 14000 series), benchmarking, cleaner technologies (CT) and other relevant researches.

Contact: [bep@tei.or.th](mailto:bep@tei.or.th)

## Media & Publications

- Implementation Guideline on Cleaner Technology for Resource Use Efficiency in Schools
- Manual, "ISO 14001 Implementation in Municipalities: Energy and Environmental Management"
- Manual, "Benchmarking on Environmental Management"
- Manual, "Implementation of Cleaner Technology in Food Industry"
- Manual, "Life Cycle Assessment"
- 4 Newsletters, "Promotion on Cleaner Technology Promotion Facility Project - Phase II"
- 2 Newsletters, "The Cleaner Technology for Resource Use Efficiency in Schools Project"
- Video, "Cleaner Technology for Resource Use Efficiency in Schools"
- Environmental Friendly Product Purchasing Guideline 2003
- Green Label Promotion Handbill, "Green Save for All & the Future"



## Project Highlights

### Material Exchange Center (MEC)

Material Exchange Center (MEC), supported by the Energy Policy and Planning Office (EPPO), was established to create a matching mechanism for material exchange and waste recycling activities within industrial sector in order to encourage viable material exchange systems and to create dynamic markets for reusable and recyclable industrial wastes. In addition, roles of MEC are not only a matching body but also a resource center providing information on industrial waste recycling. The center provides a quarterly journal distributed among members and arranges seminars and technical workshops.

Material exchange mechanism provides added value to recyclable wastes and enhance resource efficiency in production. On the side of waste generators, waste exchange provides additional income and eliminates waste disposal cost. On the side of waste users, raw material and fuel costs can be reduced, as virgin materials and fuel are

substituted by recyclable wastes. This innovative approach can eventually help in reducing waste disposal while enhancing efficient utilization of energy and natural resources.

### Management of Expired Medicines (Phase 1)

The project, supported by Thai Health Promotion Foundation, is conducted in order to develop a comprehensive management framework for expired and discarded medicine, from collection to disposal, since the expired and discarded medicine can be classified as hazardous waste, which an appropriate management is necessary. However, there is a great number of expired medicine disposed haphazardly, particularly, small-scaled clinics and household, in which the medicine is mixed and disposed with household wastes. This may result in contamination of hazardous chemical to the environment. Hence, the study will provide a systematic approach for the management of expired medicine, which is practical to socioeconomic condition as well as capacity of implement-

ing agencies. It is expected that the appropriate management framework would assist in reducing environmental and health impacts from the expired medicine.

### Thailand Energy and Environment Network (TEENET)

TEENET is a project supported by Energy Policy and Planning Office (EPPO), aimed at developing a network providing information on energy and environment in order to promote better collaboration of various energy and environmental related organisations. TEENET-TEI has been developed in order to establish an energy database and to provide web-based information service for interested parties locally and internationally. Importantly, the TEENET-TEI features a unique elaboration of geographic information system (GIS) in providing data and information on energy and environment-related issues. This serves as a comprehensive background information for further studies as well as planning and policy formulation.



# Energy, Industry & Environment



The Energy, Industry and Environment Program (EIP) aims at promoting sustainable industrial and energy development at national and regional level. Our work includes conducting policy studies on industrial environmental management ; collaborating governmental sector, private sector and general public for better environmental management and energy conservation and disseminating information and knowledge in order to enhance capacity and awareness of related stakeholders through various media such as seminars, technical workshops, publications and websites.

Contact: [eip@tei.or.th](mailto:eip@tei.or.th)

## Projects in 2003

1. Building Energy Conservation Managers for SMEs
2. Evaluation of Danish Environmental Assistance in Southeast Asia
3. The Evaluation of Environmental Research and Training Center to Improve Environmental Management in Thailand
4. Management of Expired Medicine (Phase 1)
5. ICT-based Inter-boundary Trade of Recycling Materials
6. Improving Environmental Performance of Small and Medium-Sized Enterprises
7. Industrial Pollution Control in Thailand
8. Invigorating Thai Business
9. Material Exchange Center
10. Prevention of Industrial Air Pollution in Thailand
11. Recycling of Lubrication Oil from Automobile Service Centers
12. Technology Demonstration for Pollution Prevention in Automobile Service Centers

## Publications

- Industrial Waste Management
- Recycling and Waste-to-Energy Business: The Way Forward
- Utilisation of Used Lubrication Oil
- Computer and Recycling
- Directory of Recycling Factories
- Material Exchange Center Journal
- Environmental Economics and Its Application
- Elaboration of Economic Instruments for Industrial Air Pollution
- Social Capacity Development for Environmental Management



## Project Highlights

### Research on the Status and Prospect of Environmental Education in Thailand

Success in resolving environmental problems will largely depend on a broad change in the society's priorities, which, in turn, reflect individual's behavior and attitude. In general, people change their behaviors and attitudes receiving new information and new experiences through the process of learning. Education therefore plays a vital role in the search for environmental solutions.

To survey and review the situation of environmental education in Thailand, TEI conducted two projects on the status, prospect and resources of environmental education in Thailand. On separate occasions, the two projects were funded by the Japan Bank for International Cooperation (JBIC) through the Japan Environmental Education Forum (JEEF) and the ASEAN Secretariat, resulting in two reports. The first report provided an overview of environmental education in Thailand and suggested strategies and approaches to improving the

country's environmental education. Also included in the report was the list of environmental education projects in Thailand. Another report compiled information and databases on formal and informal education, concerned and related agencies, resource persons, partner organizations, details on educational programmes and curricula, and future management in Thailand.

### Environmental and Pollution Management

Focused on environmental conservation and pollution control, TEI in collaboration with PT. Intersysy Kelola Maju of Indonesia offered an overseas training course on Environmental and Pollution Management for Indonesian delegates. The course focused on techniques and up-to-date technologies related environmental and pollution management. It aimed to enhance the participants' knowledge and perspectives on health and environmental threats from domestic wastes, cleaner technology, and environmental auditing. The participants also visited waste treatment plants and discussed case studies.

### Offshore Platform Engineering

With an increasing demand for natural gas in Thailand, efforts to maintain production output include offshore platform construction. A large number of offshore platforms are being planned or constructed to produce oil and gas in the Gulf of Thailand, as well as in other southeast Asian regional seas. A short course in Offshore Platform Engineering was organized by TEI, in collaboration with the Technical Petroleum Training Institute (IPTI), aiming at providing in-depth knowledge on the design of offshore platform and basic structural engineering concepts. It also stressed on environmental impacts of platform construction or decommissioning, as well as integration with facility engineering. Invited lecturers from the United Kingdom and Thailand conducted the course.

### Youth Camps for Environment

To promote and support local youth to help conserve the environment in their home communities, TEI has

# Environmental Education & Human Resources Development

committed to continuing effort to engage youth in environmental management and building awareness activities since 1997.

Receiving support from the private sector, youth camp activity has been regularly organized. In 2003, TEI operated a three-day youth camp activity designed to give 40 boys and girls from 14 schools in Chonburi and Samut Prakarn provinces an educational and carefree atmosphere in learning and understanding mangrove ecosystem. The activity was supported by Unocal (Thailand), Thai Nanthip, Green Spot (Thailand), and Conwood.

## Projects in 2003

- 1 Research on the Status and Prospect of Environmental Education in Thailand
- 2 Short Course in Offshore Platform Engineering
- 3 Environmental and Pollution Management Course for Indonesia
- 4 Youth Camps for Environment
- 5 Research on the Status and Prospect of Environmental Education in Thailand
- 6 Study Tour on Environmental Education in Thailand for Bhutan Teachers

The Environmental Education and Human Resources Development Center (EEHRDC) is committed to providing environmental education, training, and capacity building support that enable a wide range of stakeholders, including children and youths, to enhance their understanding of the complex context within which environmental decision-making takes place. The Center seeks to improve the quality of environmental education through ICT, to encourage group dialogue across sectors around environment and development issues, and to establish knowledge platforms in order to develop a cooperative learning approach. The Center is working towards sound environmental values and sustainable development on both national and international scales.

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## Publications

- Manual : Course Notes Offshore Platform Engineering
- Manual : Environmental and Pollution Management Course for Indonesia



## Project Highlights

### The Development of a Natural Resources and Environment Management Model for Local Authorities Project

This project aimed to develop the effective and suitable models, methods and processes of implementation of natural resources and environmental management for local authorities according to their responsibilities as stipulated under the Decentralization Act, B.E. 2542 (1999) and Environmental Quality Management Framework, B.E. 2545-2549.

This project has brought the concept of 'Strategy Management' which has been widely used by private sectors to be applied in local authorities in order to determine the directives, goal and evaluation. The important tools used in this project are 'Strategy Map' and 'Balanced Scorecard or BSC'. This concept will help local authorities well-consider in all dimensions, especially local needs, national policy, and capacity of authorities, capacity of city administrators, public participation, internal and external partnership, data

system, communications, and regular evaluation.

### Thailand Cities for Climate Protection™ Campaign (CCP)

In collaboration with ICLEI-Local Government for Sustainability, TEI is administrating this three-year project with an aim to reduce greenhouse gases from municipal activities. Participating cities included municipalities of Chiang Mai, Phuket, Rayong, Nonthaburi, Tungsong and Klaeng. The participating cities are implementing measures, which will result in reduction of energy consumption and production of Methane. Such activities are, for example, retrofitting high efficiency lamps and ballast, replacing incandescent lamps in traffic signals with LEDs, increasing the efficiency of pumping processes for the water supply, increasing recycling activities both at the municipalities and communities and launching waste-to-energy project. These local actions are not only protect the global climate but also improve the quality of life in the communities.

### Integrated Buffer Zone Development for Sustainable Management of Tropical Forest Resources in Thailand

The project's objectives are to conserve the forest ecosystem within Kaeng Krachan National Park and surrounding communities, to cooperate with local stakeholders in buffer zone management, and to develop the community and income generation within the entire buffer zone area. Moreover, it aimed to cooperate with local and national stakeholders in order to identify the real needs and support implementation in long-term by promoting public participation. It focused on training, study tour, workshop and capacity building of local communities. Further, it aimed to increase environmental awareness of local people through various activities, for examples, natural forest rehabilitation, agro-forestry or economic forest replanting, community forest management, local community network creation, promotion of environmentally friendly occupations, research works, natural resources management master plan



# Grassroots Action

development, and environmental education works.

The project results affected both to local and policy levels such as policy determination from local need, increasing of awareness on natural resources conservation in their local areas both in local government bodies and local people. Besides, there are some concrete activities, which aim to conserve natural resources in local areas such as, forest rehabilitation, community network, and teacher network that aims to promote environmental and natural resources conservation.

## Projects in 2003

1. Integrated Buffer Zone Development for Sustainable Management of Tropical Forest Resources in Thailand
2. The Participation of Schools and Communities for Thungmaha Mangrove Forests Conservation
3. Thailand Cities for Climate Protection™ Campaign
4. Public Participation on Infrastructure Network Master Plan Development : Case Study : Peripheral Communities of Map Ta Phut Industrial Estate, Rayong Province
5. Development of Livable City Indicators for District in Bangkok and Municipalities
6. Strategic Directives : Toward Sustainable Development in the Hua Hin - Cha Am Extended Urban Region
7. Khao Wong Green Community
8. Livable Cities
9. Strengthening Urban Environmental Governance in Thailand: Good Practice Documentation and Dissemination
10. The Forest, Elephants, Community Co-exist Fund

The Grassroots Action Program (GAP) is aiming to promote policy implementation and strengthen capacity of the communities and local authorities at grassroots level. Moreover, the program also promotes public participation and networking in order to deal with natural resources and environmental management. There are 4 mainly tasks in GAP which are Livable City, Buffer Zone Forest Development, Environmental Education, and Social Services.

Contact: [gap@tei.or.th](mailto:gap@tei.or.th)

## Media & Publications

- Leaflet, "Industrial Development for Well-being Community and Sustainable Environment, Map Tha Put" under Public Participation on Infrastructure Network Master Plan Development : Case Study: Peripheral Communities of Map Tha Put Industrial Estate, Rayong Province
- Video and Video CD, "Strategic Management : New Dimension of Environmental Management Integration of Petdaburi Province"
- Video CD, "Stakeholders Consultation on Strategic Management of Pa Sak River Basin"
- 3 Newsletters, "The Development of a Natural Resources and Environment Management Model for Local Authorities Project"
- Manual, "The Management of Natural Resources and Environment" (5 books)
- Proceedings of workshop, "Sharing and Building Livable City Together"



## Project Highlights

### Master Plan of Thailand's Community Environmental Management

The primary objective of this project was to draft a **Master Plan of Environmental Management of Urban and Rural Communities in Thailand**, which will be used as framework and guidelines by relevant organizations for managing the local environment in Thailand. To achieve this goal, a **hierarchy of rural-urban community** was defined and **community's environmental quality indicators** were developed in order to assess quality of local environment and measure progress toward sustainable communities.

### Formulation of the Urban Environment Management (UEM) Component, Thai-Danish Cooperation on Environment and Development, 2002-2006

Within the framework of the Programme of Thai-Danish Cooperation in Environment and Development 2002-2006, DANIDA offers support especially within the areas of Natural Resources and Urban Environmental Management. UEP was assigned to prepare a draft component description on **Support to Decentralisation of Urban Environmental Management 2004-2008**.

Three working papers were also prepared, including: a *stakeholder analysis*, an identification of *capacity building needs* in support of *decentralisation* of UEM, a documentation of good practices in various areas of UEM and updated overview of relevant government and other initiatives on UEM.

### A Study on Implementation of WSSD Outcomes

Thailand has commitments to implement the outcomes of World Summit on Sustainable Development (WSSD), which includes the Johannesburg Declaration (JD) and the Johannesburg Plan of Implementation (JPOI). In collaboration with Ministry of Natural Resources and Environment, UEP has conducted a study on implementation of WSSD outcomes. The main objective is to develop a framework for Thailand's implementation of the WSSD outcomes as well as for monitoring the implementation. This project provides opportunities for the involvement of all stakeholders including government and private sectors, as well as NGOs to evaluate the present capability, develop a framework and set priority for Thailand in implementing these strategies.

### Regional Environmental Forum (REF)

The World Resource Institute (WRI), Center for International Cooperation and Peace (CICP) in Phnom Penh, Cambodia and TEI (UEP) have collectively initiated a regional forum on the environment for the Greater Mekong Region. The main objective of the REF was to promote the development of a regional civil society network to advance environmental reform in Mainland Southeast Asia, consisting of Cambodia, China's Yunnan Province, Laos, Myanmar, Thailand and Vietnam.

The first REF was attended by a group of 35 independent researchers and civil society advocates from member countries on 14-15 November 2002. The second REF took place, focusing on issues related to access to information, public participation, and justice in environmental decision-making, in Bangkok on 29-30 January 2004. Under the high auspices of representatives from both government and international organizations, the participants gathered to promote the outcome of the first REF by discussing the adoption of TAI, a practical tool that can be applied in each participating country to implement environmental governance.

# Urbanization & Environment

## Electricity Governance Indicator

The main objective was to develop a framework for good governance in the electricity sector in Asia and to apply this framework to promote more equitable and sustainable electric power sectors. UEP hosted the first workshop in Bangkok in December 2003 to identify key governance issues in the electricity sector, and explore possible components of a framework to assess governance of the sector.

## The Access Initiative (TAI) and Partnership for Principle 10 (PP 10)

TAI is a coalition of environmental civil societies, including Acode, EMLA, Participa, WRI and TEI. [www.accessinitiative.org](http://www.accessinitiative.org). It has developed a set of indicators to assess national performance in the following areas: 1) *people's access to information about the environment*, 2) *participation in decision-making* and 3) *access to environmental justice*. Such indicators have been developed in order to provide the people and civil society organizations a tool to independently monitor the performance of the government and industries with regard to public participation as outlined in the Principle 10 of the Rio Declaration, to which their government had made a commitment. These indicators were tested in 9 countries including Thailand. Since WSSD in 2002, TAI has expanded into PP 10, members of which include governments and international organizations. [www.pp10.org](http://www.pp10.org)

## Projects in 2003

1. Preparation of Master Plan for Environmental Management of Urban and Rural Settlements in Thailand for Office of Natural Resources and Environmental Policy and Planning, MONRE
2. Formulation of Urban Environmental Management (UEM) Component, Thai-Danish Cooperation on Environment and Development, 2002-2006 for Royal Danish Embassy
3. Energy Governance Indicator for World Resources Institute (WRI)
4. The Access Initiative for World Resources Institute (WRI)
5. Regional Environmental Forum World Resources Institute (WRI), CICP (Center for International Cooperation and Peace) in Phnom Penh, Cambodia and TEI (UEP) have collectively initiated a regional forum on the environment for the Greater Mekong Region
6. Thailand Cultural Environment Fund

The Urbanization and Environment Program (UEP) conducts policy research on the relationships between urbanization, development and environmental sustainability. The aim is to provide management guidelines for innovative, cultural and technological solutions. UEP embraces a multi-disciplinary and multi-stakeholder participatory approach in addressing urban environmental challenges to achieve livable and sustainable cities. The management of the process of change, its impacts and the identifying of pragmatic options for improving the quality of urban life are key issues within the projects of UEP. The far reaching objectives of the Program ranges from recommending policy options for the National Economic and Social Development Plan of Thailand, to working alongside local communities in building sustainable capabilities and in encouraging public participation and environmental governance and also implements projects on behalf of the Thailand Cultural Environment Fund (Thailand-CEF).

Contact: [uep@tei.or.th](mailto:uep@tei.or.th)

## Publications

- "Agenda 21: Toward Sustainable Human Settlements in Thailand," Document for the 2003 TEI Annual Conference." In Past and Future of Thailand's Environment, proceedings of TEI's Annual Conference, 17 November 2003, in Thai.
- "Environmental Governance: Indicators for Public Participation in Environmental Management and PP10," In Past and Future of Thailand's Environment, proceedings of TEI's Annual Conference, 17 November 2003, In Thai.
- Strategic Plan for Public Participation and Awareness Raising 2002-2006. December 2002, in Thai.
- Executive Summary: Strategic Plan for Public Participation and Awareness Raising, December 2002, in Thai.
- Advancing Environmental Governance Perspectives from the Regional Environmental Forum for Mainland Southeast Asia, May 2545.



## Thailand Business Council for Sustainable Development (TBCSD)

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### Environmental Management Plan for the Community of Koh Kret (in cooperation with the Society for the Conservation of National Treasure and Environment: SCONTE)

This activity is to raise environmental awareness in community of Koh Kret by supporting the local communities to live in the sustainable way of life along the Chao Praya river, as well as, to provide appropriate environmental management methods to the local people of Koh Kret, especially solid waste management, waste water management, and ground water usage.

### TBCSD award

TBCSD awarded "TBCSD Award" for the most outstanding SMEs with the development of the environmental management standard. The purpose of this awarding was to raise up the environmental

management standard of SMEs for pursuing the sustainable development. Moreover, this would strengthen up a supporting network between large enterprises and SMEs in sharing knowledge of environmental management and allow SMEs, who have a good environmental practice, be supported by large enterprises.

In the year 2003, the awardees were as follows: the first prize: Ionics Co., Ltd.; the second prize: Sianwood Product Co., Ltd.; the third prize: Thai Wattana Rice Product Co., Ltd.; the complimentary award: Thaiframe and Accessories Co., Ltd.; the complimentary award: A.B.J. Farm Co., Ltd.; and the developing community award: Wongpanit Recycle Plant.

### Gala Dinner - Celebration of TBCSD 10<sup>th</sup> Anniversary

The event took place at the Grand Hyatt Erawan Hotel on October 27, 2003, to celebrate 10th anniversary of the TBCSD with an achievement of business operations with

environmental management to the public. Guests included TBCSD Council members and Associate members, regional BCSDs, Government Executives, Business Executives and the media. Mr. Bjoem Stigson, President of WBCSD, delivered Keynote Address on "Tomorrow's Markets" and presented WBCSD's first "Regional Network Decade Award" to the TBCSD. Mr. Anand Panyarachun, Chairman of TBCSD gave a speech and handed TBCSD Award to the SME's winners on Environmental Management. There were also exhibitions from TBCSD members companies regarding their work related to social and environment areas.

## Thailand Cultural Environment Fund (Thailand - CEF)

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Established under the Thailand Environment Foundation, the Thailand Cultural Environment Fund was administered as an independent fund under the leadership of Mr. Anand Panyarachun, with guidance



# Special Services Highlights

from an advisory Board comprised of representatives from international organizations and distinguished experts from across the country in the fields of architecture, fine arts and the environment.

The primary goals of Thailand CEF are to enhance cultural identity pride and creative spirit. The main attention is to proactively facilitate the conservation of buildings and places of great cultural and historical significance in Thailand. Ultimately, the ideal achievements are to see cultural environment as an inspiration for beautiful and respectful natural and community life. Conceived as a means for expediting a sustainable and participative approach to addressing cultural environment related challenges, the Thailand CEF aims to ensure that the civilizing structures of the past continue to inspire present and future generations.

For donation or inquiries, please contact [cef@tei.or.th](mailto:cef@tei.or.th) or visit [www.thailandcef.org](http://www.thailandcef.org)

## TBCSD Members (YEAR 2003)



**TBCSD**

**CHAIRMAN:** Anand Panyarachun

**SECRETARIAT:** Thailand Environment Institute

*(company members listed in alphabetical order)*

Advance Agro Public Company Limited  
Anway (Thailand) Limited  
Bangchak Petroleum Public Company Limited  
Bank of Asia Public Company Limited  
Cement Thai Chemical Company Limited  
Dow Chemical Thailand Limited  
Ek - Chai Distribution System Company Limited  
Electricity Generating Authority of Thailand  
Electricity Generating Public Company Limited  
Esso (Thailand) Public Company Limited  
Government Housing Bank  
Haad Thip Public Company Limited  
Kasikorn Bank Public Company Limited  
Krung Thai Bank Public Company Limited  
Matichon Public Company Limited  
National Petrochemical Public Company Limited  
Nava Nakorn Public Company Limited  
Padaeng Industry Public Company Limited  
Procter & Gamble Trading (Thailand) Limited  
PIT Exploration and Production Public Company Limited  
PIT Public Company Limited  
T.N. Group  
Thai Pure Drinks Limited  
Tilleke & Gibbins International Limited  
Unilever Thai Trading Limited  
Union Textile Industries Public Company Limited  
Unocal Thailand Limited

# Our Contribution to the Society

The mission to contribute to the society as well as environment protection has always been TEI's priority. Therefore, a range of activities have been continuously undertaken as follows:

- TEI convened the annual conference titled "the Past...the Future of Thailand Environment" on 17 November 2003 at the Queen Sirikit National Convention Center in Bangkok. H.E. Prommin Lertsuridej, M.D. Minister of Energy, presided over the conference and gave a keynote speech on "Energy and Sustainable Development." The conference attracted 800 participants from government sector, private sector, NGOs, academia, the media and the public.
- MMC Sittipol Company Limited donated two million Baht to the Thailand Environment Institute to launch a project to reduce the conflict between farmers and wild elephants in the Kaeng Krachan National Park border area. TEI then set up the Forest, Elephants, Community Co-exist Fund to manage the activities for the project. The activities involved 11 local villages in Hua Hin District, Prachuap Kirikhan Province and Kaeng Krachan District, Petchaburi Province. Main activities included the provision of feedstuff for wild elephants and the promotion of alternative ways to earn a living for farmers and gardeners. MMC Sittipol also provided a vehicle - Mitsubishi Strada G-Wagon - to be used for the project.
- 17 August 2003 - H.E. Somsak Thepsutin, Minister of Industry, presided over the opening of the charity soccer match between the team comprising of government officers from the Ministry of Industry and other industrial companies and the star team "Mangpoh Loe Klueu." The activity was a part of the fund raising for the Fund for Toxic Chemical Sufferers managed by TEI.
- Material Exchange Center arranged material exchange activities among industrial factories such as paper scraps, used lube oil, used solvent and metal powder, and also from industrial factories to women groups and handicraft groups. A press visit at a used lube oil recycling factory and contribution of recycled plastic cases as gifts for the children's day event has been arranged to promote MEC's activities.
- In cooperation with the Thailand Cycling Club, TEI has organized the campaign for Bicycles for City, Heart to Heart Bicycle Rally from Naratiwat to Bangkok to raise funds for the Forest, Elephants, Community Co-exist Fund. And further, we donated bicycles, computers, sport equipment and cloths to the schools and communities in remote areas.
- In addition, TEI staff contributed themselves as guest speakers in various training courses organized by other institutions, i.e. cleaner technology, environmental auditor, green label, etc.



# Thailand Environment Foundation

## Financial Statements

31 December 2003

### AUDITOR'S REPORT

#### To the Board of Directors of Thailand Environment Foundation

I have audited the accompanying balance sheets of the Thailand Environment Foundation as at 31 December 2003 and 2002 and the related statements of revenues and expenditures and changes in fund balances for the years then ended. These financial statements are the responsibility of the Foundation's management. My responsibility is to express an opinion on these financial statements based on my audits.

I conducted my audits in accordance with generally accepted auditing standards. Those standards require that I plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. I believe that my audits provide a reasonable basis for my opinion.

In my opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Thailand Environment Foundation as at 31 December 2003 and 2002, and its revenues and expenditures and changes in fund balances for the years then ended in accordance with generally accepted accounting principles.

WIMON CHIAMCHITTRONG  
Certified Public Accountant  
(Thailand) No. 3365  
PricewaterhouseCoopers ABAS Limited

Bangkok  
19 March 2004

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<sup>1</sup> The Thailand Environment Foundation is a non-governmental organization registered as a charitable foundation under Thai law. The Thailand Environment Institute was established by the Foundation to implement its objectives and to carry out all activities on behalf of the Foundation.

Thailand Environment Foundation  
Balance Sheets  
As at 31 December 2003 and 2002

	Notes	2003			2002	
		Operating Fund Baht	Sponsored program Fund Baht	Capital & reserve Fund Baht	Total All Funds Baht	Total All Funds Baht
<b>Assets</b>						
<b>Current assets</b>						
Cash in hand and at banks	3	37,225,029	19,492,906	37,086,625	93,804,560	116,260,076
Sponsorships receivable		6,150	14,599,297	-	14,605,447	11,862,583
Fund receivable		20,467,681	-	2,348,874	22,816,555	16,042,954
Other current assets		667,962	1,923,041	502,007	3,093,010	3,019,768
Long-term investment due within one year	4	-	-	4,000,000	4,000,000	-
<b>Total current assets</b>		<b>58,366,822</b>	<b>36,015,244</b>	<b>43,937,506</b>	<b>138,319,572</b>	<b>147,185,381</b>
<b>Non - Current assets</b>						
Long-term investment	4	-	-	-	-	4,000,000
Property and equipment, net	5	47,103,140	5,940,034	-	53,043,174	12,149,298
<b>Total non - current assets</b>		<b>47,103,140</b>	<b>5,940,034</b>	<b>-</b>	<b>53,043,174</b>	<b>16,149,298</b>
<b>Total assets</b>		<b>105,469,962</b>	<b>41,955,278</b>	<b>43,937,506</b>	<b>191,362,746</b>	<b>163,334,679</b>
<b>Liabilities and fund balances</b>						
<b>Liabilities</b>						
Advance from sponsors		-	7,478,763	-	7,478,763	13,809,601
Accounts payable and accrued expenses		6,213,112	4,136,235	29,446	10,378,793	6,904,373
Fund payable		2,348,874	20,467,681	-	22,816,555	16,042,954
<b>Total liabilities</b>		<b>8,561,986</b>	<b>32,082,679</b>	<b>29,446</b>	<b>40,674,111</b>	<b>36,756,928</b>
<b>Fund balances</b>						
Unrestricted		-	-	19,173,429	19,173,429	61,526,629
Restricted	6	96,907,976	9,872,599	24,734,631	131,515,206	65,051,122
<b>Total fund balances</b>		<b>96,907,976</b>	<b>9,872,599</b>	<b>43,908,060</b>	<b>150,688,635</b>	<b>126,577,751</b>
<b>Total liabilities and fund balances</b>		<b>105,469,962</b>	<b>41,955,278</b>	<b>43,937,506</b>	<b>191,362,746</b>	<b>163,334,679</b>

The notes to the financial statements on pages 24 to 26 form an integral part of these financial statements.



**Thailand Environment Foundation**  
**Statements of revenues and expenditures and changes in fund balances**  
**For the years ended 31 December 2003 and 2002**

	Notes	2003			2002	
		Operating Fund Baht	Sponsored Program Fund Baht	Capital & Reserve Fund Baht	Total All Funds Baht	
<b>Revenues</b>						
Sponsorships		941,610	93,829,502	-	94,771,112	87,591,304
Contribution from members		-	8,353,120	-	8,353,120	5,812,177
Other income	7	1,765,401	2,147,229	1,248,875	5,161,505	3,540,869
<b>Total revenues</b>		<b>2,707,011</b>	<b>104,329,851</b>	<b>1,248,875</b>	<b>108,285,737</b>	<b>96,944,350</b>
<b>Expenditures</b>						
Salary and related costs		11,394,836	24,142,296	533,394	36,070,526	39,114,321
Sub-contract for research		517,258	4,918,255	-	5,435,513	11,797,877
Rental fee		274,664	1,309,354	-	1,584,018	1,904,394
Utility and communication expenses		966,678	1,934,674	470,800	3,372,152	3,100,932
Travel and related costs		203,837	3,818,993	-	4,022,830	2,869,220
Meeting and seminar expenses		1,058,263	11,072,789	-	12,131,052	8,639,047
Publication expense		228,574	3,381,327	-	3,609,901	3,931,615
Promotional material		507,433	1,230,558	-	1,737,991	1,281,173
Library and document		40,744	33,334	-	74,078	95,190
Computer and stationery supplies		313,561	1,088,289	-	1,401,850	1,488,808
Bank charge and duty stamp		66,337	268,805	-	335,142	459,804
Consultant and audit fees		266,436	143,270	-	409,706	382,920
Media expenses		139,260	27,649	-	166,909	225,870
Field expenses		-	2,020,124	-	2,020,124	2,064,418
Depreciation	5	1,225,213	2,654,221	-	3,879,434	3,104,802
Contribution for projects activities		326,980	4,530,386	-	4,857,366	3,890,621
Miscellaneous		940,761	2,125,499	-	3,066,260	2,652,220
<b>Total expenditures</b>		<b>18,470,836</b>	<b>64,699,823</b>	<b>1,004,194</b>	<b>84,174,853</b>	<b>87,003,232</b>
<b>Excess of revenues over (under) expenditures</b>		<b>-15,763,825</b>	<b>39,630,028</b>	<b>244,681</b>	<b>24,110,884</b>	<b>9,941,118</b>
<b>Changes in fund balances</b>						
<b>Fund balances brought forward</b>		51,901,370	3,761,576	70,914,805	126,577,751	116,636,633
Increase (decrease) during the year		-15,763,825	39,630,028	244,681	24,110,884	9,941,118
<b>Less Fund transferred :</b>						
- Completed projects	8	23,970,836	-33,519,005	9,548,169	-	-
- Application of plant fund		42,299,595	-	-42,299,595	-	-
- Reserve for plant fund	9	-4,500,000	-	4,500,000	-	-
- Reserve for staff educational fund	10	-1,000,000	-	1,000,000	-	-
<b>Fund balances carried forward</b>		<b>96,907,976</b>	<b>9,872,599</b>	<b>43,908,060</b>	<b>150,688,635</b>	<b>126,577,751</b>

The notes to the financial statements on pages 24 to 26 form an integral part of these financial statements.

## 1 General information

Thailand Environment Foundation ("the Foundation") was established on 24 February 1993 as a non-profit making organisation and aims to play a catalytic role in promoting close cooperation among government, private sector, a coalition of NGOs, media and academia. The Foundation conducts policy research and action-oriented research for protect the environment and promote Thailand's long-term policy on the environment.

The address of its registered office is as follows:

16/151, Muang Thong Thani, Bond Street, Tambon Bangpood, Amphur Pakkred, Nonthaburi 11120.

Thailand Environment Foundation was declared to be a public charity No. 322, in accordance with the Ministry of Finance's Notification dated 14 October 1997.

As at 31 December 2003, the Foundation employed 110 employees. (2002 : 135 employees)

## 2 Significant accounting policies

The principal accounting policies adopted in the preparation of these financial statements are set out belows.

### 2.1 Basis of preparation

The financial statements are prepared in accordance with and comply with generally accepted accounting principles in Thailand.

### 2.2 Fund accounting

To ensure observance of limitations and restrictions placed on the use of the resources available to Thailand Environment Foundation, the financial statements are maintained in accordance with the principles of "fund accounting". The purpose of the funds maintained by Foundation are as follows :

**Operating fund** : funds available for general operating purpose. Operating fund is supported by approximately 30% of gross revenue from sponsored program fund.

**Sponsored program fund** : funds for research activities, field activities, seminars, workshops, conferences, symposia, or training, supported by donors or other outside agencies.

**Capital fund** : represents the initial registered fund of the Foundation of Baht 5,000,000. Commencing from 1 January 1996, the interest income derived from the capital fund shall be included in reserve fund.

**Reserve fund** : funds contributed from various sources and are accumulated as reserve for future uses. Commencing from 1 January 1996, the interest income incurred shall be included in the reserve fund.

### 2.3 Revenues and expenditures

Sponsorships are recognised as revenues in accordance with the terms of the contracts. When sponsorships received exceed the expenditures incurred, the net balance is presented as advance from sponsors, and vice versa, the net balance is presented as sponsorships receivable.

Expenditures are recorded on an accrual basis.

### 2.4 Property and equipment

Property and equipment are stated at cost.

Depreciation is calculated on a straight-line method to write off the cost of each asset except for land as it is deemed to have an indefinite life to their residual values over their estimated useful lives as follows:

Building	10 and 20 years
Leasehold improvement	5 years
Furniture and office equipment	3 and 5 years
Motor vehicles	5 years

The foundation records depreciation as an expense in the year. When a fixed asset is retired, the foundation will write off both the asset and the related accumulated depreciation from the accounts, and recognise any gain or loss from retirement of the asset in the statement of revenues and expenses.

Expenditures for addition, renewal and betterment, which result in a substantial increase in an asset's current replacement value, are capitalised. Repair and maintenance costs are recognised as an expense when incurred.

### 3 Cash in hand and at banks

The Foundation has pledged bank deposits of Baht 12,692,946 (2002 : Baht 8,208,800) as security for bank guarantees in respect of research and field projects.

### 4 Long-term investment

This represents Government bonds bearing interest at 4.75% per annum which will be due in 2004 as detailed below:

	2003 Baht	2002 Baht
Long-term investment	4,000,000	4,000,000
<u>Less</u> : Current portion due within one year	(4,000,000)	-
	<u>-</u>	<u>4,000,000</u>

### 5 Property and equipment, net

#### Sponsored Program Fund

	Furniture & office equipment Baht	Motor vehicles Baht	Total Baht
<b>At 31 December 2002</b>			
Cost	19,788,999	7,352,538	27,141,537
<u>Less</u> Accumulated depreciation	(16,620,122)	(3,683,929)	(20,304,051)
Net book amount	<u>3,168,877</u>	<u>3,668,609</u>	<u>6,837,486</u>
<b>For the year ended 31 December 2003</b>			
Opening net book amount	3,168,877	3,668,609	6,837,486
Additions	1,239,156	1,011,000	2,250,156
Disposals, net	(484,949)	(8,438)	(493,387)
Depreciation charges	(1,541,759)	(1,112,462)	(2,654,221)
Closing net book amount	<u>(2,381,325)</u>	<u>(3,558,709)</u>	<u>(5,940,034)</u>
<b>At 31 December 2003</b>			
Cost	16,133,051	8,325,038	24,458,089
<u>Less</u> Accumulated depreciation	(13,751,726)	(4,766,329)	(18,518,055)
Net book amount	<u>2,381,325</u>	<u>3,558,709</u>	<u>5,940,034</u>

#### Operating Fund

	Land Baht	Buildings and building improvement Baht	Leasehold improvement Baht	Furniture & office Equipment Baht	Motor vehicles Baht	Total Baht
<b>At 31 December 2002</b>						
Cost	3,240,000	2,204,288	1,652,597	6,440,731	2,133,257	15,670,873
<u>Less</u> Accumulated depreciation	-	(1,469,922)	(1,639,368)	(5,309,262)	(1,940,509)	(10,359,061)
Net book amount	<u>3,240,000</u>	<u>734,366</u>	<u>13,229</u>	<u>1,131,469</u>	<u>192,748</u>	<u>5,311,812</u>
<b>For the year ended 31 December 2003</b>						
Opening net book amount	3,240,000	734,366	13,229	1,131,469	192,748	5,311,812
Additions	9,569,200	30,985,899	-	2,461,647	-	43,016,746
Disposals, net	-	-	(171)	(34)	-	(205)
Depreciation charges	-	(347,768)	(12,517)	(737,495)	(127,433)	(1,225,213)
Closing net book amount	<u>12,809,200</u>	<u>31,372,497</u>	<u>541</u>	<u>2,855,587</u>	<u>65,315</u>	<u>47,103,140</u>
<b>At 31 December 2003</b>						
Cost	12,809,200	33,190,187	1,204,411	8,696,959	2,133,257	58,034,014
<u>Less</u> Accumulated depreciation	-	(1,817,690)	(1,203,870)	(5,841,372)	(2,067,942)	(10,930,874)
Net book amount	<u>12,809,200</u>	<u>31,372,497</u>	<u>541</u>	<u>2,855,587</u>	<u>65,315</u>	<u>47,103,140</u>

**5 Property and equipment, net (Cont'd)**

Equipment for Sponsored program fund are those acquired for specific projects and are available to be used by the Foundation at the completion of the projects except those of the sponsors specify for other particular purposes.

Depreciation for 2003 amounting to Baht 3,879,434 (2002 : Baht 3,104,802) has been included in the statement of revenues and expenditures.

**6 Capital and Reserve fund balance - restricted**

	<b>2003</b>	<b>2002</b>
	<b>Baht</b>	<b>Baht</b>
The capital fund	14,465,579	23,416,625
Reserve for plant fund	2,200,405	30,270,880
Reserve for staff educational fund	7,062,892	6,341,614
Reserve for medical welfare	1,005,755	1,260,427
	<u>24,734,631</u>	<u>61,289,546</u>

**7 Other income**

	2003			2002	
	Operating Fund Baht	Sponsored Program Fund Baht	Capital & Reserve Fund Baht	Total All Funds Baht	Total All Funds Baht
Interest income	164,265	167,943	1,218,875	1,551,083	2,227,714
Revenue from training course and registration	-	-	-	-	154,940
Others	1,601,136	1,979,286	30,000	3,610,422	1,158,215
	<u>1,765,401</u>	<u>2,147,229</u>	<u>1,248,875</u>	<u>5,161,505</u>	<u>3,540,869</u>

**8 Fund transferred - completed projects**

Revenue from Sponsored program Fund is allocated to operating fund at the rate between 10% - 30% of gross revenue. Allocation will be made when cash is received.

**9 Reserve for plant fund**

The Foundation has established a reserve for plant fund. The amount of which is based on the market rate of rental expense of fixed assets and is allocated from operating fund.

**10 Reserve for staff educational fund**

The Foundation has established a reserve for staff educational fund. An amount of Baht 1 million per annum is allocated from operating fund.

**11 Commitments and contingent liabilities**

As at 31 December 2003, there are bank guarantees issued on behalf of the Foundation in respect of research projects and field projects amounting to Baht 12,692,946 (2002: Baht 8,208,800).



# Donors & Sponsors

## Domestic

Department of Environmental Quality Promotion  
 Department of Industrial Promotion  
 Department of Mineral Resources  
 DTAC - Total Access Communication Plc.  
 Electrical and Electronics Institute  
 Energy Policy and Planning Office  
 Industrial Estate Authority of Thailand  
 Kenan Institute Asia  
 MMC Sittipol Company Limited  
 National Economic and Social Development Board  
 National Petrochemical Public Company Limited  
 Office of Natural Resources and Environmental Policy and Planning  
 Pacific Consultant  
 The Petroleum Authority of Thailand  
 Pollution Control Department  
 Standard Chartered Nakornthon Bank  
 Thai Health Promotion Foundation  
 Thai Industrial Standards Institute  
 Thailand Business Council for Sustainable Development  
 Thailand Cultural Environment Fund  
 The Thailand Research Fund  
 Toyota Foundation  
 Unocal Thailand Limited

## International

Asian Development Bank  
 Danish International Development Agency  
 Deutsche Gesellschaft Fur Technische Zusammenarbeit  
 The Global Ecolabelling Network  
 International Civil Service Commission  
 The International Council for Local Environmental Initiatives Canada  
 International Tropical Timber Organization  
 The Institute for Global Environmental Strategies  
 Japan Environment Management Association for Industry  
 Japan Environmental Education Forum  
 The Japan Society for International Development  
 The Kanagawa International Environment Cooperation Committee  
 United Nations Conference on Trade and Environment  
 United Nations Household Survey Capability Programme  
 United States Asia Environment Partnership  
 World Resources Institute

## Funding Sources

(as of December 2003)

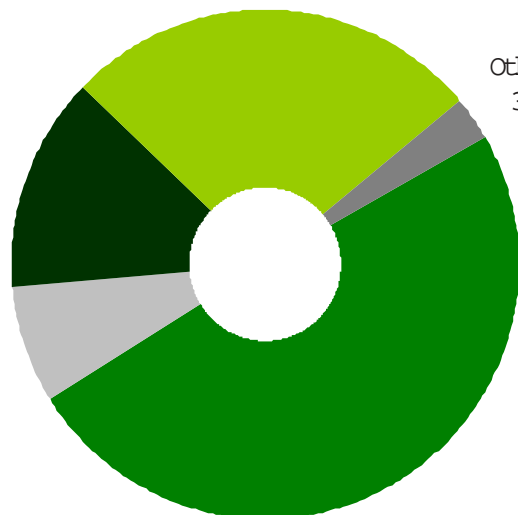
Private Sector  
14 %

Other Funds  
7 %

International  
27 %

Others  
3 %

Government  
49 %



# TEI Library & Publications

(sample of TEI publications)



The TEI Library is a bi-lingual (Thai/English) specialized environmental library, supporting the vision of TEI and the project activities of the different programs of TEI.

The collections of the Library cover a wide range of environment related subjects such as pollution, waste management, cleaner technology, global warming, forestry, status of the environment, environmental management and good governance, international environmental agreements, national environmental legislation, sustainable development, and so forth. The type of publications included range from project and research reports, academic, technical and general publications, videos and CD-Roms. The Library also maintains a collection of environmental news clippings, environmental newsletters, and periodicals.

Visitors are welcome to use the Library during opening hours from 08:00 to 17:30 on weekdays (closed on public holidays). It is also possible to borrowing TEI Library materials through inter-library loans.



For more information about TEI, please visit our web site @

[www.tei.or.th](http://www.tei.or.th)

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