



สถาบันสิ่งแวดล้อมไทย  
Thailand Environment Institute

# Annual Report 2004



Thailand Environment Institute

Partnership &  
Participation

**Thailand Environment Institute  
Annual Report 2004**

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Founded on the belief that partnerships are the most effective approach to achieving a more sustainable way of life, the Thailand Environment Institute (TEI) advocates a participatory approach to shared environmental responsibility. Only through harnessing our collective strengths can we hope to achieve a better life for all.

Partnership & Participation

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A handwritten signature in black ink, appearing to read 'Anand Panyarachun', written in a cursive style.

**Anand Panyarachun**  
*Chairman of the Council of Trustees  
Thailand Environment Institute*

## Message from the Chairman of the TEI Council of Trustees

Thailand Environment Institute (TEI) is now stepping towards a challenging 12th anniversary, amongst enormous and rapid changes both in the world and in Thailand itself.

As days go by we have observed the effects that link among the environmental aspects with social development and economic growth. Such linkages can be seen in the increasing global warming, the avian flu, the oil crisis, and most closely to us at the end of the year 2004 – the giant Tsunami. At the same time, there remains unrest in the three border provinces in the South.

The three main pillars of development; society, economy and environment, must go together and be taken into consideration when developing new projects and infrastructure. TEI, as a catalyst in the environmental aspects, has to rapidly adapt to keep abreast of current situations. The adjustment has to be a process for linking these three components for bringing about integrated development, promoting sustainable development, and more significantly, to be an organization capable of guiding society in environmental concerns and actions based on its more than ten years of experience.

In the past year, TEI have initiated a campaign against noise pollution to promote the culture of serenity and raise awareness on its harmful effect to people especially the youth. We have learned and shared experiences in environmental education with Japan and other countries as well. Furthermore, we have established a green procurement network in Thailand to promote green products. As the Chairman of the Thailand Business Council for Sustainable Development as well, I would like to kindly invite the business sector to render its cooperation, support and assistance through its various projects and activities which will ultimately directly benefit the entire society. Long-term support is required to solve the immediate problems that exist, as well as to elaborate on the ways and means to prevent the reoccurrence of those problems.

Lastly, I would like to thank all sectors for their true dedication and participation in the process of achieving environmental sustainability. We all are so close to the environment. If each of us starts to take action, even in the small ways, such as, helping to reduce fuel and electricity consumption while at the same time encouraging and persuading others close to us to do likewise, our goal of achieving environmental sustainability will be more attainable.

## Message from the Chairman of the TEI Board of Executive Directors

Last year marked the beginning of the second decade for TEI which had been steadily growing in stature since its inception in 1993. During that time, we have seen a considerable worsening of the state of the environment, both in Thailand and the rest of the world. This deterioration calls for greater and more effective efforts to arrest the decline and reverse it if possible. In a small way, TEI will try its utmost to improve the quality and efficiency of its own work in order to contribute more to the betterment of environmental quality in Thailand.

To this end, an ambitious program of reform was started towards the end of the year. A draft Action Plan has since been completed, and some provisions of the plan have already been implemented on a trial basis, pending the approval of the Action Plan by the Council and the Executive Board. Another significant development was the completion of the down-sizing of the Institute which had been going on since the economic crisis of 1997. The staff of TEI was reduced to 104 at the end of the year, but this number is expected to grow modestly in the current year because of an expected increase in the project volume.

Another notable development in 2004 was the initiation of the Sustainable Communities Project in the Province of Buriram in cooperation with the Population and Community Development Association (PDA). The project is currently being financed partially from TEI's resources, employing funds from the Fund for Social Services which was established earlier.

With the planned restructuring of its operations, it is expected that TEI will be in a better position to contribute to the betterment of the environment in the near future.



A handwritten signature in black ink, appearing to read 'ผ. ภาชีตฺร อุทวิทฺกุล'.

**Professor Dr. Phaichitr Uathavikul**  
*Chairman of the Board of Executive Directors  
Thailand Environment Institute*

## Message from the President



*Sanit Aksornkoe*

**Professor Sanit Aksornkoe, Ph.D.**  
President  
Thailand Environment Institute

Since assuming the responsibility of the position of president from January 2004, I have come to know our institution better. Our staff is like one family that is playing significant roles in supporting all elements to gain a good understanding of the environment as we work towards achieving sustainable development. Part of this work has also involved the application of guiding technology to bring about balanced development from the integration of economic, social and environmental aspects. Moreover, it serves as a classroom for youth, the general public as well as our neighbors in the Asia-Pacific region.

In 2004, TEI has expanded its focus into policy and action research by encouraging its partners and other involved parties towards implementation of action through real practices, as well as promoting and undertaking increased development of our human resources. We expect that these efforts will double in the future.

I sincerely thank all the supporters of TEI, and the administrators at all levels for contributing useful suggestions to the management, and all the staff who worked hard throughout the past year. The support is particularly appreciated from the youth groups and general public who participated in activities beneficial to our society, especially from TEI's neighbours in the Muang Thong Thani community, and our long-time friends who have never deserted us such as the Thailand Business Council for Sustainable Development, and the Bangchak Petroleum Public Company Limited.

For the future, TEI will continue to concentrate on environmental research in three dimensions –policy research, field-work and training, with an emphasis on development of the involved personnel as well as rendering services to society.

I truly hope to receive continued good support from all of you. I myself will devote all my efforts to TEI and I would like to see TEI playing a very significant role in conserving the environment for the benefit of Thai Society and our country as a whole.

# Thailand Environment Institute

Established in 1993, the **Thailand Environment Institute (TEI)** is a non-profit, non-governmental organization working for the conservation of natural resources and the sustainable development of the 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.

## 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."

## FOUNDERS



**Professor Dr. Phaichitr Uathavikul**

Former Minister of Science,  
Technology and Environment



**Mr. Kasem Snidvongs**

Former Permanent Secretary of the  
Ministry of Science, Technology  
and Environment



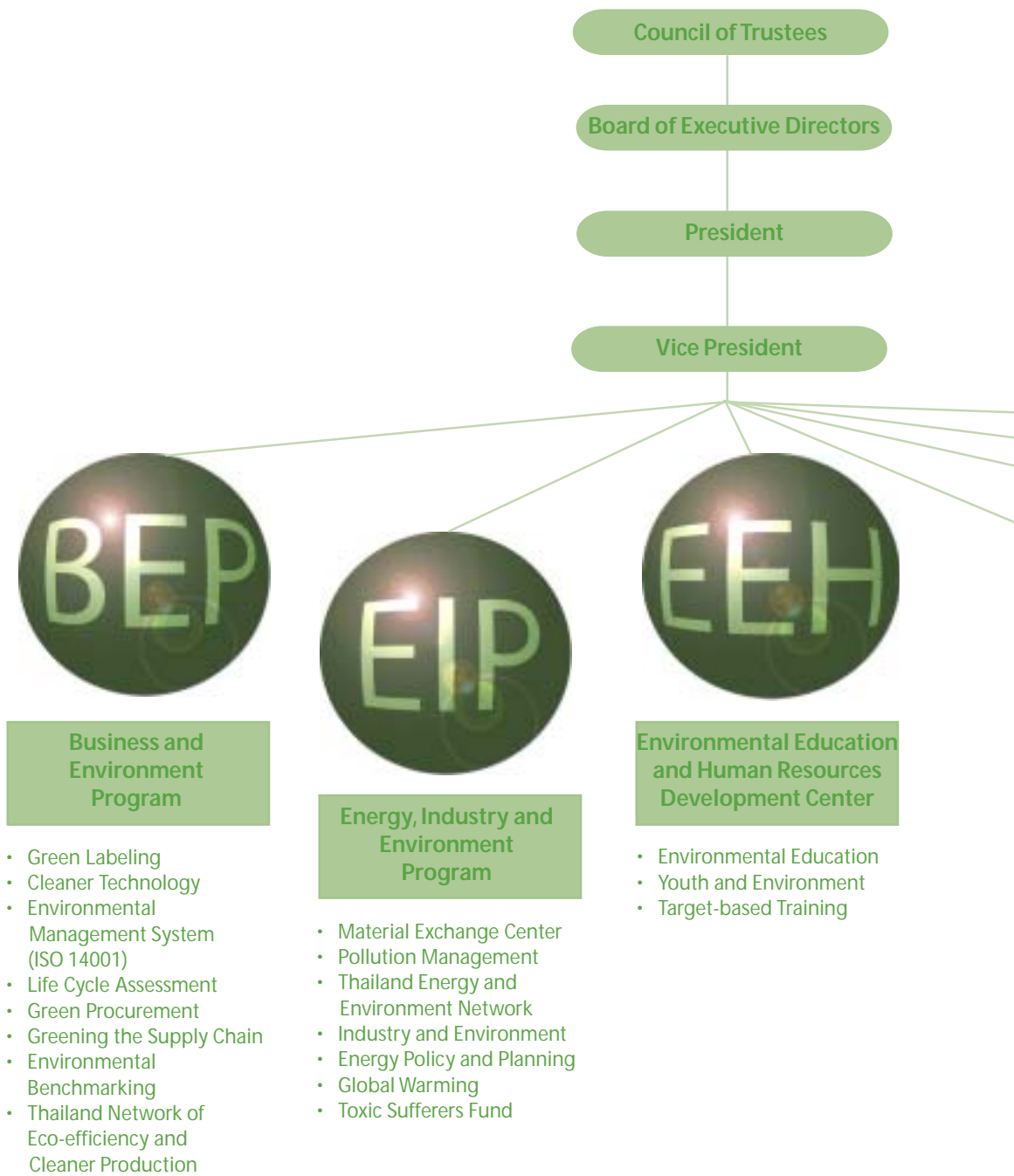
**Mr. Sophon Suphamong**  
Senator (Bangkok)



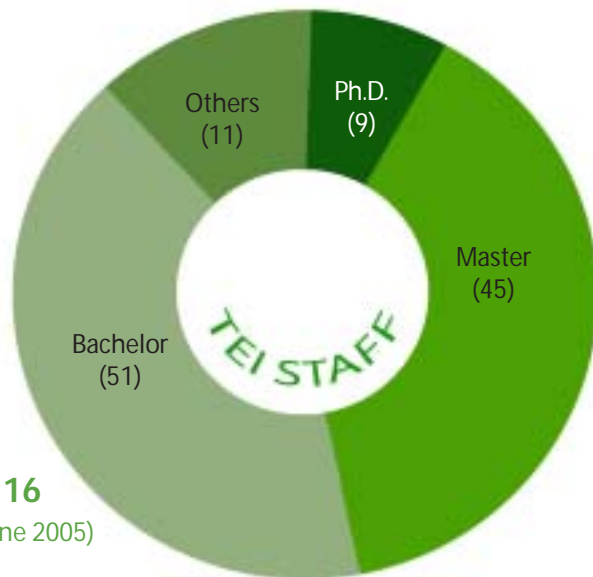
**Dr. Dhira Phantumvanit**  
Former President of Thailand  
Environment Institute  
(Passed-away)



## Organizational Structure







**TEI Staff = 116**  
(last updated June 2005)



**Grassroots  
Action  
Program**

- Buffer Zone Management for Forest Conservation
- Local Agenda 21
- Mangrove Forest's Conservation
- Thailand Cities for Climate Protection Campaign
- Thai Forest Watch network
- Urban Forestry
- The Forest, Elephants, Community Co-exist Fund



**Urbanization  
and Environment  
Program**

- Sustainable City Indicators
- Sustainable Tourism
- The Access Initiative (TAI & PP10)
- Public Participation and Environmental Governance
- Noise Pollution Control Campaign
- International Environment
- Thailand Cultural Environment Fund (CEF)



**President's Office**

- Policy Planning
- Quality Control/ Quality Assurance
- External & Public Relations
- Information Services
- Environmental Learning Source and Library
- IT Support
- Crosscutting Large Scale Projects
- TBCSD's secretariat



**Administration and  
Finance Department**

- Project Monitoring
- Accounting & Financial Management
- Human Resources
- Purchasing & Procurement
- Facility Management & Other Services

## Organizations

DEQP	Department of Environmental Quality Promotion
DIP	Department of Industrial Promotion
DIW	Department of Industrial Works
DMR	Department of Mineral Resources
EGAT	Electricity Generating Authority of Thailand
ERIC	Environmental Research Institute, Chulalongkorn University
IEAT	Industrial Estate Authority of Thailand
ISMED	Institute for SMEs Development Foundation
JBIC	Japan Bank for International Cooperation
KIAsia	Kenan Institute Asia
MONRE	Ministry of Natural Resources and Environment
NESDB	National Economic and Social Development Board
OBEC	Office of the Basic Education Commission
PCD	Pollution Control Department
SCF	Siam Cement Foundation
TBCSD	Thailand Business Council for Sustainable Development
TEI	Thailand Environment Institute
ThaiHealth	Thai Health Promotion Foundation
TRF	The Thailand Research Fund
UNESCO	United Nations Educational, Scientific, and Cultural Organization

## Others

CDM	Clean Development Mechanism
CITES	The Convention on International Trade in Endangered Species of Wild Fauna and Flora
DESD	Decade of Education for Sustainable Development
ESD	Education for Sustainable Development
FTA	Free Trade Agreement
GSC	Greening the Supply Chain
MEAs	Multilateral Environmental Agreements
WTO	World Trade organization

## Donors & Sponsors

### Local

British Embassy Bangkok  
 Department of Environmental Quality Promotion (DEQP)  
 Department of Industrial Promotion (DIP)  
 Department of Industrial Works (DIW)  
 Department of Mineral Resources (DMR)  
 Electricity Generating Authority of Thailand (EGAT)  
 Energy Policy and Planning Office (EPPO)  
 Environmental Research Institute, Chulalongkorn University (ERIC)  
 Industrial Estate Authority of Thailand (IEAT)  
 Institute for SMEs Development Foundation (ISMED)  
 Kenan Institute Asia (KIAsia)  
 Ministry of Natural Resources and Environment (MONRE)  
 MMC Sitthipol Company Limited  
 National Economic and Social Development Board (NESDB)  
 Office of Basic Education Commission (OBEC)  
 Office of Natural Resources and Environment Policy and Planning  
 Pollution Control Department (PCD)  
 Siam Cement Foundation (SCF)  
 Thai Health Promotion Foundation (ThaiHealth)  
 Thailand Business Council for Sustainable Development (TBCSD)  
 The Administration in Conservation Area 13th Office  
 The Siam Cement Public Company Limited  
 The Thailand Research Fund (TRF)

### International

Coastal Habitats and Resources Management (CHARM)  
 European Commission (EC)  
 Institute for Global Environmental Strategies (IGES)  
 International Centre for Sustainable Cities (ICSC)  
 International Council for Local Environment Initiative (ICLEI)  
 International Tropical Timber Organization (ITTO)  
 Japan Environment Management Association for Industry (JAMAI)  
 Japan Environmental Education Forum (JEEF)  
 Japanese Experiences Industrial Pollution Control  
 Kanagawa International Environment Cooperation Committee (KIECC)  
 The Japan Society for International Development (JASID)  
 The New Energy and Industrial Technology Development (NEDO)  
 The United Nations Development Programme (UNDP)  
 Toyota Motor Asia Pacific Pte. Ltd.  
 World Bank  
 World Resource Institute (WRI)

The image features a green background with a wavy line that curves across the middle. A dark circle is positioned on the right side of the wavy line, containing the year '2004' in white. The overall design is clean and modern, with a focus on the year and the project highlights.

2004

project Highlights



### Development of Greening the Supply Chain Model for Use in Thailand

With the realization that "Greening the Supply Chain (GSC)" is an effective tool and process that allows purchasing companies to reach out to small- and medium-sized suppliers to improve their environmental management and more efficient use of resources which led to increased productivity and better product quality, TEI has introduced this concept to Thai industry by conducting the project with 3 TBCSD companies and their 6 supplier companies as case studies in Thai context.

The project delivers technical assistance and training to supplier companies on basic housekeeping, environmental management and efficient resource use. All supplier companies have found that GSC not only generates environmental benefits and reduce occupational health risk, but also offers opportunities for cost reduction and enhances their competitive advantage. From the project, it is vital to conclude that buyer companies and their suppliers can collaborate in environmental management and tackle it upstream of production.



### Development of Sustainable Development Indicators (SDI)

Since the Earth Summit in 1982, Thailand has adopted Sustainable Development and Agenda 21 as a framework for the national development plan. However, there were no indicators that could officially evaluate the level of sustainable development of the nation. NESDB thus supported TEI and Kenan Institute Asia to develop an evaluation framework for Thailand's sustainable development that was clear and incorporates the balance among the three dimensions of development; economic, social and natural resources and environmental management. This also resulted in development of Sustainable Development Indicators (SDI) and composite index for Thailand as an evaluation tool in relevant areas including; the status, successfulness and level of sustainable development in order to monitor the state in each period of time and also include an assessment of the achievement of sustainable development.



Developing the SDIs uses the workshop approach to brainstorm ideas from experts, scholars and representatives from involved governmental agencies. This produced indicators that reflect development and that are consistent with development in the Thai context. There are 13 indicators of the environmental dimension, 12 indicators of the economic dimension and 12 indicators in the social dimension, totaling 37 indicators. These indicators will be used as the tools in evaluating the level and result of the nation's development, to guide policy decision making and raise an alarm to identify any imbalances in the nation's development.

# BUSINESS AND ENVIRONMENT PROGRAM



## Toolkit Development for Implementing Integrated Resources Management in Schools (iRMS)

Success in promoting the Cleaner Technology (CT) concept and its best practices that has been used widely in the industrial sector to schools from the CT-school project, BEP continuously engaged schools in CT and building awareness activities. The project consists of 4 major parts: (1) follow-up of CT benchmarking activities that had been undertaken by the 28 pilot schools from previous phase; (2) development of Integrated Resources Management (IRM) toolkits to be used in schools; (3) development of nationwide database on resource (electricity, water, chemical) and waste management in schools; and (4) evaluation of IRM tools.

IRM tools include 5 software programs and manuals that enable schools to conduct their self-assessment on resource use and effectively plan and improve their environmental performance. More than 30,000 teachers and students were provided training workshops on tools use. The project also distributed these tools to 2,000 schools around the country. "CT in schools" Network has been established by initiative of 21 participating schools.

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.

## BEP's Projects in year 2004

1. Capacity Building for TBCSD members (2004)
2. Capacity Building on Cleaner Production in Thai Food Industries: an "extended approach" to promote socially responsible environmental management and increase market opportunities (2003-2004)
3. Development of Greening the Supply Chain Model for Use in Thailand (2004-2005)
4. Development of National Sustainable Development Indicators – Phase I (2003-2004)
5. Development of National Sustainable Development Indicators – Phase II (2004-2005)
6. Enhancing the Promotion of Efficiency Energy and Environment Management in Municipalities (2004-2006)
7. Environmental Management Seminar V (2004)
8. Evaluation of Cleaner Production Status in Thailand (2004-2005)
9. Green Labeling (2004)
10. Implementation of Best Management Practices for Solid Wastes Reduction in BMA Hospitals (2004-2005)
11. Sustainable Production and Consumption Roadmap of Thailand (2004-2006)
12. The Thailand Business Council for Sustainable Development (TBCSD) Award II (2004)
13. Toolkit Development for Implementing Integrated Resources Management in Schools(2003-2005)



### Development of Water Pollution Management Master Plan

Water pollution is one of pressing environmental problems in Thailand. Accordingly, there is a number of governmental agencies involved in water pollution management, coupled with the governmental reform leading to changes of institutional arrangement within the public sector. In order to successfully achieve a holistic approach in water pollution management, there is a need to revise the Water Pollution Management Master Plan. The development of the new Water Pollution Management Master Plan highlighted a participatory approach, in which various sectors including public agencies, private sector, NGOs as well as experts, significantly took part in brainstorming sessions to deliver appropriate measures and action plans for the holistic water pollution management. The draft Water Pollution Management Master Plan is being submitted to the National Environment Board and the Cabinet to be adopted as the policy framework for water pollution management.



### Raising Performance of Industrial Pollution Management in Songkhla Lake Basin

Songkhla Lake Basin has been classified as one of strategic areas for the economic development plan for the southern region. Accordingly, there is a steady growth of economic activities in the area resulting in pollution problems. However, the current pollution management practices applied are mainly in an end-of-pipe approach. In this regard, the project was conducted in order to elaborate pollution prevention concept for industrial sector in the Songkhla Lake Basin in order to increase production efficiency and reduce pollution at source. The project activities included demonstration of pollution prevention practices in 5 factory sites and networking of public and private sectors for pollution monitoring. Moreover, the pollution prevention handbooks for 5 industrial sectors were developed, which will create awareness for other factories to effectively apply the concept in their operations.



## Pollution Prevention in Automobile Service Centers: the Technology Demonstration Project

Automobile service business has been growing rapidly with an increase in number of establishments. Vastness of this sector has placed a pressure on the environment as waste and pollution are inevitably created from auto service activities, which have adverse health and environmental effects. Consequently, it is required to introduce the concept of pollution prevention to this sector in order to achieve a win-win solution to reduce pollution at sources and to minimise losses in production process, while quality of products and services is still maintained or improved.



The study aimed at providing appropriate measures to promote pollution prevention and energy conservation in automobile service sector. The project activities also included demonstration of appropriate technologies and practices for pollution prevention in 5 pilot automobile service centers. Moreover, the pollution prevention and energy conservation handbook for automobile service centers was published. This will create awareness for other automobile service centers to effectively apply the pollution prevention concept accordingly.

# ENERGY, INDUSTRY AND ENVIRONMENT PROGRAM

Energy, Industry and Environment Program (EIP) aims at promoting sustainable industrial and energy development at national and regional level. EIP's 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.

## EIP's Projects in year 2004

1. Capacity Building for Industrial Pollution Management in Songkhla Lake Basin (2004)
2. Development of Energy Managers for Small and Medium-scaled Industries (2003-2004)
3. Development of Water Pollution Management Master Plan (2004)
4. "Energy Conservation in Small and Medium-scaled Industries" under Invigorating Thai Business Project (ITB) –Phase II
5. Guidelines for Appropriate Management of Expired and Discarded Medicines (Phase I)
6. ICT-based Inter-boundary Trade of Recycling Materials (Phase 2) (2003-2004)
7. Improving Environmental Performance of Small and Medium-Sized Enterprises (Phase 2) (2003-2004)
8. Industrial Pollution Control in Thailand
9. Introduction to Clean Development Mechanism (CDM) for Cooperation between Japan and Thailand
10. Material Exchange Center (2001-2004)
11. Modern Management Handbook for Community-based Enterprises (2004)
12. Pollution Prevention in Automobile Service Centers: The Technology Demonstration Project
13. Recycling of Lubrication Oil from Automobile Service Centers (2003-2004)
14. Revision of Chemical Safety Management
15. Total Energy Management for Industrial Efficiency Improvement



### JBIC Workshop on Environmental Education for Sustainable Development

Financed by the JBIC and supported by Thailand's Ministry of Natural Resources and Environment through the DEQP, the workshop aimed to address the issue of environmental education in solid waste management and to initiate an opportunity for knowledge and information exchange among Japanese and Thai local communities, public administration and schools on the issue-area. It was attended by 120 Thai and Japanese participants representing national and local governments, local communities, schools and scholars with strong interest in environmental education. Through panel and group discussions, as well as field visits in Bangkok and Pattaya, the workshop created an effective environment and forum for honest discussion and learning. Based on recommendations of the workshop participants, further networking and cooperation activities in the field of community-based environmental conservation and management are being planned. As a result, TEI is joining a Japanese non-profit organization, Genki Network for Creating a Sustainable Society, in carrying out a JBIC-supported project on networking and applying Japanese experiences in community-based environmental activities in Thailand. The initiative will be launched in May 2005.



### Building Platform and Networks of Experts and Practitioners to Strengthen National Capacity on Multilateral Agreements Concerning Environment and Natural Resources

The project is designed to encourage cross-sector group discussions and information exchange among key and concerned experts and practitioners in Thailand on issues related to Thailand's policies and strategies towards multilateral environmental agreements that may affect the country's trade. It adopts positive solution-based and partnership approaches to strengthen Thailand's capacity on MEAs in trade negotiation, focusing on both multilateral and bilateral agreements, which includes climate change and Clean Development Mechanism (CDM), bio-diversity and Biosafety Protocol, CITES, FTA and WTO. The project is currently working on a series of TRF-supported research activities that have provided concerned officials with useful baselines and important analyses on environment-related aspects for trade policy-making and development. TEI serves as the platform coordinator to facilitate the dialogues and to stimulate relevant research ideas/initiatives for TRF's further support.



## Situational Analysis on Education for Sustainable Development in the Asia-Pacific Region (Southeast Asia)

The project aimed to review the existing situation and highlight some key strategies to promote education for sustainable development in the Southeast Asian sub-region. UNESCO, as the lead organization for the implementation of the upcoming Decade of Education for Sustainable Development (DESD), was in the process to develop a regional implementation strategy for the Asia-Pacific Region. To assist in guiding the regional implementation of the



DESD, UNESCO Bangkok, with the support of the Japanese Government, conducted an Asia-Pacific regional Situational Analysis of ESD aiming at identifying needs and developing and reinforcing partnerships for ESD in the region. The regional analysis focused on five sub-regions: South Asia, West/Central Asia, Southeast Asia, North Asia and the Pacific. The Southeast Asia project covered eleven countries (i.e., Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam, and Timor Leste) with special focus on Lao PDR and Thailand. A report on initial findings and analysis was submitted for review at the regional workshop held by UNESCO in Bangkok.

# ENVIRONMENTAL EDUCATION AND HUMAN RESOURCES DEVELOPMENT CENTER

The Environmental Education and Human Resources Development Center (EEHRDC) is TEI's core capacity building unit. The Center is established to create, document and promote best practices in environmental education and education for sustainable development; integrating education and research expertise to build capacity in schools, communities, and local organizations. We are committed to provide environmental education, training, and communication services, which support a wide range of stakeholders, including children and youths, to tackle short-term problems and create long-term solutions by delivering on-ground results and influencing whole community through networks. Working towards sound environmental values and sustainable development on both national and international scales, the Center will focus on communication to improve the quality of environmental education through ICT, encourage group dialogue across sectors around environment and development issues, and establish knowledge platforms in order to develop a cooperative learning approach.

## EEH's Projects in year 2004

1. Building Platform and Networks of Experts and Practitioners to Strengthen National Capacity on multilateral agreements concerning Environment and Natural Resources (2004-2005)
2. Campaign for Popular Education (CAMPE) Mission on Environmental Education in Thailand (Bangladesh) (2004)
3. ICM Planning and Implementation Training for municipalities in Chonburi Province (activity under the Partnerships in Environmental Management for the Seas of East Asia (PEMSEA)) (2004-2005)
4. Improvement of East Asia Database on environmental education and education for sustainable development programs (Thailand) (2004-2005)
5. JBIC Workshop on Environmental Education for Sustainable Development (2004)
6. Situational Analysis on Education for Sustainable Development in the Asia-Pacific Region (Southeast Asia) (2004-2005)



### Strategic Directions: Towards Sustainable Development in Hua Hin – Cha Am Extended Urban Region (EUR)

The Hua Hin and the Cha Am Region are significant for economic and social systems at the cluster, provincial, and regional levels. They are reciprocal and interrelated in terms of development factors. There still exists a lack of concrete coordination at the policy and implementation levels, thus resulting in the lack of consolidated, harmonious and clear guidelines for the development of the region. The Hua Hin – Cha Am EUR must formulate efficient strategic direction for sustainable area and enhancement of nation competitive capacity.

The Hua Hin – Cha Am EUR's strategic thrust put an emphasis on (1) tourism sustainable development, (2) urban planning, urban structure, and public facilities, (3) conservation of natural resources and the development of the environment efficacy (4) development of the agricultural and fishing product manufacture and processing procedures, and (5) local governments' administration and management improvement. All the strategic themes are interrelated and logically driving one another. The implementation of the Hua Hin – Cha Am EUR development strategies are localities' data system should be compatible with one another, integrate the Hua Hin – Cha Am EUR' comprehensive and development strategic plan, budgetary system should be inter-connected and efficient, and strengthen localities' capacity and public participation.

### Master Plan Development for Infrastructure Network through Partnership Participation Approach: Case Study of the Peripheral Area of Map Ta Put Industrial Estate

The project aim was to develop the infrastructure master plan for Map Ta Put Industrial Estate and peripheral area. The objectives of this master plan sought to improve the quality of life for communities in and around this facility.



A participatory approach was applied to identify the existing infrastructure situation, community issues and priority needs, and overall economic – social – environmental conditions. The output was an infrastructure master plan that was submitted to the relevant government agencies and organizations. Associated with the work were a series of pilot projects targeting capacity building at the community level within TAO Ban Chang and Map Ta Put Municipality.



# GRASSROOTS ACTION PROGRAM

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 natural resources management and environmental. There are 4 mainly tasks in GAP which are Sustainable City, Buffer Zone Forest Management and Local Government Capacity Building.

## GAP's Projects in year 2004

1. A Preliminary Study of Khao Wong Sustainable Community (2004)
2. Integrated Buffer Zone Development for Sustainable Management of Tropical Forest Resources in Thailand (Kangkrachan) (2000-2005)
3. Local Organizations Strengthening through Coastal Resources Management and Action Planning (2004)
4. Master Plan Development for Infrastructure Network through Partnership Participation Approach: Case Study of the Peripheral Area of Map Ta Put Industrial Estate (2003-2004)
5. Strategic Directions: Towards Sustainable Development in Hua Hin – Cha Am Extended Urban Region (EUR) (2003-2004)
6. Supporting Decentralization through the Promotion of Good Urban and Environmental Governance (Sub-Component: Strengthening Capacity-Development Institutions) (2003-2005)
7. Sustainable City Indicators Development for Districts in Bangkok and Municipalities (2003-2005)
8. Thai Forest Watch Network (2004)
9. The Activity of "Garbage Free in Koh Kret" or Koh Kret Project phase II (2004)
10. The Cities for Climate Protection (CCP™) Campaign in Thailand (2002-2004)
11. The Evaluation of *Pa Rak Nam Rak Pan Din* Project –Saving Forest, Saving Water, Saving the Earth (2004)
12. The Forest, Elephants, Community Co-exist Fund (2002-2004)
13. The Mae Hong Son Provincial Millennium Development Goal (MDGs) Project (2004-2005)
14. Training Development on Assessment of Sustainable Forest Management in Indonesia (2004)



## Sustainable City Development Indicators for Districts in Bangkok and Municipalities

The main objectives were to (1) Formulate sustainable city development indicators (SDI) for municipalities and Bangkok districts; and (2) Test, monitor and evaluate the implementation of the indicators at the municipal level.

The Project outputs/ outcomes were: (1) Formulation of a set of Sustainable City Indicators that cover all aspects of development that municipalities can apply to their own jurisdictions; (2) Producing a set of guidelines to facilitate municipalities formulating their own set of SDIs; and (3) Introducing a competitive award to be given in 2005 to municipalities that have achieved the most progress in relation to implementing their SDIs.



### The Beauty of Silence

On behalf of the Thailand Cultural Environment Fund (CEF), UEP initiated a campaign to combat noise pollution under the support of Thailand Business Council for Sustainable Development, Department of Environmental Quality Promotion and Bangkok Metropolitan Administration, with collaboration from 10 other agencies and organizations such as Pollution Control Department, Thai Traffic Police and Bangkok Mass Transit System. The campaign aimed to raise awareness of the dangers from noise pollution to Bangkok people and to create a culture of peace and quiet in Bangkok.

The campaign had two parts. First, a sampling survey was conducted of the noise pollution levels in public places such as residential areas, parks, temples, offices, schools, exhibition halls, movie theaters and shopping complexes. It was found that most places have a high level of noise pollution, even schools.

The second part was the awareness-raising event held at Benjasiri Park on 30 May 2004. The event was opened by the Permanent Secretary of Bangkok Metropolitan Administration. It hosted a round-table talk about noise pollution in Bangkok with 6 guest speakers from various sectors including government, private, academics and youth.

About 700 sets of questionnaires that were given out during both parts of the project showed, upon review, a nearly unanimous public opinion that the environmental noise level in Bangkok is too loud and needs to be controlled more effectively.

Due to the success of the "Beauty of Silence" campaign, CEF was awarded additional funding from the TBCSD to conduct another campaign to raise awareness among parents of dangers from noise pollution to children. CEF has also sought funding from Thai Health Promotion Foundation to conduct a project to raise noise pollution awareness among high school students.



### Implementation of Agenda 21 and World Summit on Sustainable Development (WSSD)

In collaboration with Ministry of Natural Resources and Environment, UEP conducted a study of the national implementation of Agenda 21 and WSSD. The study revealed how a number of relevant organizations have responded to the implementation of Agenda 21 and highlighted the crucial issues that needed to be addressed to improve progress towards sustainable development. The study drew on the key elements of primary research, and condensed the findings from relevant organizations and stakeholders through surveys and meetings.

The project provided opportunities for all stakeholders to evaluate present capacity, develop a framework and set priorities for Thailand, in order to enhance greater participation and interaction among government authorities, NGOs and the private sector. Increased cross-sector collaboration has the potential of raising the awareness of all stakeholders, leading to a greater commitment to sustainable development by all partners involved.



## Good Environmental Governance: Public Participation Indicators for Thailand's Sustainable Development

TEI is a founding member of the **Partnership for Principle 10 (PP10)**, a "Type II" outcome of the WSSD and core team member of **The Access Initiative (TAI)**. TAI is a global coalition of civil society organizations dedicated to promoting the implementation of Principle 10 of the Rio Declaration, including people's access to information, decision-making and justice, and closing the gaps between international commitments to information and participation and national laws and practices. TAI Core Team has collaboratively developed a set of indicators to assess national implementation of Principle 10 (of the Rio Declaration).

One of TEI's PP10 commitments is to conduct the 2<sup>nd</sup> national TAI assessment. The long-term objective of this project is to *institutionalize* the monitoring of public participation in environmental policies, strategies, plans, programs and projects that have impacts on the public in Thailand, by using TAI methodology. This is so that gaps will be identified, priorities for policy reform set, capacity of officials and NGOs enhanced and awareness of the general public raised on a regular and continuing term.

The assessment is being conducted by a Research Team comprising 11 researchers from government agencies (related to the selected case studies), academic institutions and civil society organizations. The project implementation and results are overseen by an Advisory Panel comprising 16 experts from government and representatives from stakeholder organizations in relation to the selected case studies.

The results of the assessment will be presented to the public in 2005 at a dissemination conference of 250 participants. A publication of the assessment report in Thai language is expected in July 2005. Electronic files will also be made available at the TEI website in order to disseminate the results to the public. (These outreach activities are supported by the Development Cooperation Foundation in collaboration with the Canadian International Development Agency).

## URBANIZATION AND ENVIRONMENT PROGRAM

The Urbanization and Environment Program (UEP) conducts policy research on the relationships between urbanization, development and environmental sustainability. The Program aims 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 range from recommending policy options for the National Economic and Social Development Plan of Thailand, to working alongside local communities in building sustainable capabilities and encouraging public participation and environmental governance. UEP also implements projects on behalf of the Thailand Cultural Environment Fund (Thailand-CEF).

### UEP's Projects in year 2004

1. Implementation of Agenda 21 and World Summit on Sustainable Development (WSSD) (2003-2004)
2. Development of Environmental Governance Indicators (2004)
3. Good Environmental Governance: Public Participation Indicators for Thailand's Sustainable Development (2004-2005)
4. Governance of the Electricity Sector in Asia: Developing Tools for Effective Governance (2003-2004)
5. ONREPP's Master Plan for Community Environmental Management (2003-2004)
6. Regional Environmental Forum (2003-2004)
7. Research on "The Equity of Opportunity to Access and Manage Natural Resources, Environment, Energy and Fund for Sustainable Development" (2004)
8. "The Beauty of Silence" Project (2004)
9. Samut Prakan (Thailand) Waste Management Initiative: Collecting and Applying Best Practices (2004)
10. Thailand's Implementation of the Decisions of UNEP Governing Council (2004-2005)
11. Sustainable City Indicators for Chiangmai (2004-2005)



### Climate Change Dialogue

TBCSD and TEI co-hosted the Dialogue on CLIMATE – SUSTAINABLE DEVELOPMENT – SOCIETY: IMPLICATIONS AND RESPONSE at the Fifth Princess Chulabhorn International Science Congress held on 19 August 2004 at the Shangri-La Hotel, Bangkok. Participated by invitation, of 60 senior level participants from Government, business, industry, academia, research institutions, the media and international organizations, the dialogue addressed the impacts of climate variation on health, agriculture/food security and water, — three major cornerstones of the sustainability, welfare and well being of society, and the implications and response options.



### AU-TBCSD Center for Sustainable Enterprise Management (C-SEM)

This resource center was established in 2004 in cooperation with the Assumption University (AU) with an aim to raise the awareness of sustainable development practices in both business

students, especially MBA program, and business managers in order to entwine sustainable strategies with mainstream business management practices. The Advisory Board and the Working Committee consisted of representatives from AU and TBCSD have been established to help develop an educational program that can be used by all higher institutes and universities of Thailand, to focus on cooperation with business companies to encourage business management practices by means of training courses, sharing knowledge and experience, information dissemination, and to perform research and studies in sustainable business management, emphasizing Thailand's experience context.



### TBCSD Award 2

Due to the success of the first TBCSD Award launched in 2003, the TBCSD members had agreed to continue the awarding for the second year. The project has initiated aiming to encourage social responsibilities of Small and Medium Enterprises or SMEs and to raise the environmental management standard of SMEs for pursuing sustainable development. The project has allowed them to have a good environmental practice, supported by large enterprises, from the TBCSD, and strengthen a supporting network between large enterprises and SMEs in sharing knowledge of environmental management. The Oriental Electronics Devices Company Limited won the first prize of this year's TBCSD Award and received 70,000 Baht and a trophy.



### Environmental Management Plan and Its Activity for the Community of Koh Kret

With a collaboration of the SCONTE, the project aimed to create environmental awareness by providing an environmental management plan in waste management and natural resources conservation through public participation from the community of Koh Kret. It also demonstrated the environmental friendly activities within the scope area, providing a better knowledge in environmental management and natural resources conservation to the community, which leads to the sustainable development of the community along the Chao Praya River. The project organised and established a participating network among the TBCSD, Local Administration Organizations and local community in rehabilitating the Chao Praya river and the Island of Koh Kret.

## THAILAND BUSINESS COUNCIL FOR SUSTAINABLE DEVELOPMENT

The Thailand Business Council for Sustainable Development (TBCSD) is a non-profit organization established in November 1993 by Mr. Anand Panyarachun, the former Prime Minister of Thailand, with the mandate to promote sustainable development through business leadership. With current membership of 29 high profile business leaders from 26 Thai & multi-national companies and TEI as Secretariat of the TBCSD continues to manage the implementation of several action oriented TBCSD sponsored projects, i.e., green labeling, promotion of cleaner technology in Thai industry, several trainings, workshops and seminars, as well as to disseminate business and environmental information to benefit the public at large, in addition to highlighting the environmental accomplishments of the TBCSD members.

New TBCSD members in 2004 were the Siam City Cement PCL, the Unithai Group of Companies, Hewlett-Packard (Thailand), and the Crown Property Bureau.

### TBCSD members (organizations)

- Advance Agro PCL
- Amway (Thailand) Ltd.
- Bank of Asia PCL
- Crown Property Bureau
- Dow Chemical Thailand Ltd.
- Electricity Generating Authority of Thailand
- Electricity Generating Public Company Limited
- Esso (Thailand) PCL
- Hewlett – Packard (Thailand) Ltd.
- Kasikorn Bank PCL
- Krung Thai Bank PCL
- Mitrphol Sugar Corp.,Ltd.
- National Petrochemical PCL
- Padaeng Industry PCL
- PTT Exploration and Production PCL
- PTT Public Company Limited
- Siam City Cement PLC
- T.N. Group
- Thai Pure Drinks Ltd.
- Thailand Environment Institute
- The Bangchak Petroleum PCL
- The Siam Cement PCL
- Toyota Motor Thailand Co.,Ltd.
- Unilever Thai Trading, Ltd.
- Union Textile Industries
- The Unithai Group of Companies



### Forum for Annual Reporting on Environment 2004 (FARE 2004)

The Forum for Annual Reporting on Environment (FARE) is an alternative venue in approaching the solving methods of environmental related problems of the country from the viewpoint of the non-governmental organizations (NGOs). It was first launched in 1993 and continued years after. In 2004, FARE was held during 5-6 June 2004 at the Convention Hall of the Public Relation Department in Bangkok. This time, TEI was assigned to serve once again as its secretariat to organize the event, in cooperation with other 83 organizations. The event had attracted more than 2,000 participants. The agenda included a series of technical seminars from keynote address, side events, panel discussions, exhibitions and shops. Highlight topics included Thai-Malaysian Gas Pipeline, Potash Mining Project in Udon Thani Province, the Study for Development of New Town: Nakon Nayok Province, National Park and Tourism, and Master Plan of Water Resource Management, etc.

The recommendations gathering from the seminars were formulated into **the Official Statement of FARE 2004** and submitted to the Government in order to bring about concrete actions. In addition, **the FARE 2004 Declaration** was also announced and pledged by organizations and individuals alike. This is to confirm the commitment to support the declaration and put into practices. Publications of the FARE 2004 summary of comments and recommend- ations and CD-Rom including the FARE 2004 proceedings were distributed to the public and used as valuable resources for references.

### The Secondary Education Quality Improvement (SEQI) Project

The SEQI project was implemented with the support from OBEC and the World Bank, considering that the quality of secondary education remains a critical concern and the vast majority of Thai secondary educational institutions, particularly in the rural areas, do not have equal opportunity to access high quality teachers, materials and to a lesser extent technology. The main objective of this project thus aims to improve quality of the secondary education with an integration of Information and Communication Technology (ICT) into the educational process of 20 selected schools within 6 provinces in the southern region of Thailand, focusing on four fundamental subjects, namely, science, mathematics, English language, and computer science. Training curriculum, materials and handbooks were specifically developed and further used in several computer-based trainings conducted for the teachers, as well as educational supervisors and school principals.



By the end of the project, at least 80% of supervisors participating in the project are able to supervise school principals and teachers to use computer technology for English subject; 70% of English teachers participating in the project are able to use computer technology through learner-centered and team-teaching methods in teaching their subjects; 70% of English teachers participating in the project are able to teach students to write reports and make presentations using the software programs such as Microsoft PowerPoint, Microsoft Excel and Microsoft Word in their subjects; and 70% of students in participating schools are able to search for information and present the learning English using computer technology.



# Thailand Environment Foundation<sup>1</sup>

## Financial Statements

31 December 2004

### AUDITOR'S REPORT

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

I have audited the balance sheet of Thailand Environment Foundation as at 31 December 2004, and the related statements of revenues and expenditures and changes in fund balances for the year 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 audit. The financial statements of Thailand Environment Foundation for the year ended 31 December 2003, presented herewith for comparative purposes, were audited by another auditor in the same firm as myself, whose report dated 19 March 2004 expressed an unqualified opinion on those financial statements.

I conducted my audit 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 audit provides 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 2004, and its revenues and expenditures for the year then ended in accordance with generally accepted accounting principles.

NANGNOI CHAROENTHAVEESUB  
Certified Public Accountant  
(Thailand) No. 3044  
PricewaterhouseCoopers ABAS Limited

Bangkok  
18 March 2005

<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 2004 and 2003**

	Notes	2004			2003	
		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	29,051,085	19,370,527	47,677,436	96,099,048	93,804,560
Sponsorships receivable		101,480	14,580,498	-	14,681,978	14,605,447
Fund receivable		21,668,718	-	515,945	22,184,663	22,816,555
Long-term investment due within one year		-	-	-	-	4,000,000
Other current assets		474,586	1,483,460	477,848	2,435,894	3,093,010
<b>Total current assets</b>		<b>51,295,869</b>	<b>35,434,485</b>	<b>48,671,229</b>	<b>135,401,583</b>	<b>138,319,572</b>
<b>Non - Current assets</b>						
Property, plant and equipment, net	4	41,413,312	3,879,150	-	45,292,462	53,043,174
<b>Total non - current assets</b>		<b>41,413,312</b>	<b>3,879,150</b>	<b>-</b>	<b>45,292,462</b>	<b>53,043,174</b>
<b>Total assets</b>		<b>92,709,181</b>	<b>39,313,635</b>	<b>48,671,229</b>	<b>180,694,045</b>	<b>191,362,746</b>
<b>Liabilities and fund balances</b>						
<b>Liabilities</b>						
Advance from sponsors		-	7,077,960	-	7,077,960	7,478,763
Accounts payable and accrued expenses		1,888,450	6,799,513	51,705	8,739,668	10,378,793
Fund payable		-	21,966,415	218,248	22,184,663	22,816,555
<b>Total liabilities</b>		<b>1,888,450</b>	<b>35,843,888</b>	<b>269,953</b>	<b>38,002,291</b>	<b>40,674,111</b>
<b>Fund balances</b>						
Unrestricted		90,820,731	-	14,298,332	105,119,063	116,081,405
Restricted	5	-	3,469,747	34,102,944	37,572,691	34,607,230
<b>Total fund balances</b>		<b>90,820,731</b>	<b>3,469,747</b>	<b>48,401,276</b>	<b>142,691,754</b>	<b>150,688,635</b>
<b>Total liabilities and fund balances</b>		<b>92,709,181</b>	<b>39,313,635</b>	<b>48,671,229</b>	<b>180,694,045</b>	<b>191,362,746</b>

The notes to the financial statements on pages 26 to 28 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 2004 and 2003**

	Notes	2004			2003	
		Operating Fund Baht	Sponsored Program Fund Baht	Capital & Reserve Fund Baht	Total All Funds Baht	
<b>Revenues</b>						
Sponsorships		894,441	67,064,100	-	67,958,541	94,771,112
Contribution from members		-	6,238,831	-	6,238,831	8,353,120
Other income	6	2,033,535	1,380,242	901,057	4,314,834	5,161,505
<b>Total revenues</b>		<b>2,927,976</b>	<b>74,683,173</b>	<b>901,057</b>	<b>78,512,206</b>	<b>108,285,737</b>
<b>Expenditures</b>						
Salary and related costs		11,310,370	20,818,964	693,128	32,822,462	36,070,526
Sub-contract for research		644,913	11,949,530	-	12,594,443	5,435,513
Rental fee		946,581	1,891,990	-	2,838,571	1,584,018
Utility and communication expenses		1,723,977	1,933,756	24	3,657,757	3,372,152
Travel and related costs		272,913	5,071,399	8,050	5,352,362	4,022,831
Meeting and seminar expenses		640,011	7,785,591	3,128	8,428,730	12,131,052
Publication expense		349,106	4,073,950	-	4,423,056	3,609,901
Promotional material		171,484	1,251,595	-	1,423,079	1,737,991
Library and document		40,584	37,023	-	77,607	74,078
Computer and stationery supplies		752,337	1,092,551	1,304	1,846,192	1,401,850
Bank charge and duty stamp		299,548	308,976	100	608,624	335,142
Consultant and audit fees		279,510	51,200	-	330,710	409,706
Media expenses		-	41,163	-	41,163	166,909
Field expenses		-	136,954	-	136,954	2,020,124
Depreciation	4	2,951,536	2,279,736	-	5,231,272	3,879,434
Contribution for projects activities		349,300	3,682,224	-	4,031,524	4,857,366
Miscellaneous		1,658,253	1,005,889	439	2,664,581	3,066,260
<b>Total expenditures</b>		<b>22,390,423</b>	<b>63,412,491</b>	<b>706,173</b>	<b>86,509,087</b>	<b>84,174,853</b>
<b>Excess of revenues over (under) expenditures</b>		<b>(19,462,447)</b>	<b>11,270,682</b>	<b>194,884</b>	<b>(7,996,881)</b>	<b>24,110,884</b>
<b>Fund balances brought 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>
Excess of revenues over (under) expenditures		(19,462,447)	11,270,682	194,884	(7,996,881)	24,110,884
Fund transfers :						
Completed projects	7	17,157,589	(17,673,534)	515,945	-	-
- Gain from transfer fund from disposal of fixed assets		(3,782,387)	-	3,782,387	-	-
<b>Fund balances carried forward</b>		<b>90,820,731</b>	<b>3,469,747</b>	<b>48,401,276</b>	<b>142,691,754</b>	<b>150,688,635</b>

The notes to the financial statements on pages 26 to 28 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 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 to protect the environment and promote the implementation of environmental policies in Thailand.

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 Notification issued by the Ministry of Finance dated 14 October 1997.

As at 31 December 2004, the Foundation employed 109 employees (2003 : 110 employees).

## 2 Significant accounting policies

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

### 2.1 Basis of preparation

The financial statements have been prepared in accordance with Thai generally accepted accounting principles under the Accounting Act B.E. 2543, being those Thai Accounting Standards issued under the Accounting Profession Act B.E. 2547.

The Foundation has chosen not to apply Thai Accounting Standards No. 25 : Cash flow statement, No. 47 : Related party transactions and No. 48 Financial instruments : Disclosure and Presentation. The application of these standards is not mandatory for non-public companies.

The accounting principles applied may differ from generally accepted accounting principles adopted in other countries and jurisdictions. The accompanying financial statements are therefore not intended to present the financial position and results of operations in accordance with jurisdictions other than Thailand. Consequently, these financial statements are only addressed to those who are informed about Thai generally accepted accounting principles and practices.

The financial statements have been prepared under the historical cost convention.

The preparation of financial statements in conformity with Thai Generally Accepted Accounting Principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements and the amounts of revenues and expenses in the reported periods. Although these estimates are based on management's best knowledge of current events and actions, actual results may differ from those estimates.

Where necessary, comparative figures have been adjusted to conform with changes in presentation in the current year.

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

**Sponsored program fund** : represents 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 million. Commencing from 1 January 1996, the interest income derived from the capital fund has been included in reserve fund.

**Reserve fund** : represents funds received from contribution from various sources and are accumulated as reserve for future uses. Commencing from 1 January 1996, the interest income derived from the reserve fund has been included in the reserve fund.

### 2.3 Revenues and expenditures

The financial statements of the Foundation have been prepared on an accrual basis. Sponsorships are recorded as revenues when due. Sponsorship income on a cost reimbursement program is recognised as income when direct contract costs are incurred. When sponsorships received exceed the income recognised, the net balance is presented as advances received from sponsors, and vice versa, the net balance is presented as sponsorship receivable.

Membership fee income is recognised when due. Interest income is recognised on a time proportion basis, taking account of the principal outstanding and the effective rate over the period to maturity.

The Foundation recognises expenditures on an accrual basis.

## 2.4 Property, plant and equipment

Property, plant and equipment are initially recorded at costs, subsequently stated at historical cost less accumulated depreciation.

Depreciation is calculated on the straight-line basis to write off the cost of each asset to its residual value over the estimated useful lives of the related assets as follows:

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

Gains and losses on disposals are determined by comparing proceeds with the carrying amount and are included in revenue or expenditures.

Repairs and maintenance are charged to the statement of revenues and expenditures during the financial period in which they are incurred. The cost of major renovations is included in the carrying amount of the asset when it is probable that future economic benefits in excess of the originally assessed standard of performance of the existing asset will flow to the Foundation. Major renovations are depreciated over the remaining useful life of the related asset.

## 3 Cash in hand and at banks

The Foundation has pledged bank deposits of Baht 1,221,526 (2003 : Baht 12,692,946) as security for bank guarantees in respect of research and field projects.

## 4 Property, plant and equipment, net

### Sponsored Program Fund

	Furniture & office equipment Baht	Motor vehicles Baht	Total Baht
<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>
<b>For the year ended 31 December 2004</b>			
Opening net book amount	2,381,325	3,558,709	5,940,034
Additions	1,359,749	-	1,359,749
Disposals, net	(151,879)	(989,018)	(1,140,897)
Depreciation charges	(1,404,030)	(875,706)	(2,279,736)
Closing net book amount	<u>2,185,165</u>	<u>1,693,985</u>	<u>3,879,150</u>
<b>At 31 December 2004</b>			
Cost	14,795,031	5,860,626	20,655,657
<u>Less</u> Accumulated depreciation	(12,609,866)	(4,166,641)	(16,776,507)
Net book amount	<u>2,185,165</u>	<u>1,693,985</u>	<u>3,879,150</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 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>
<b>For the year ended 31 December 2004</b>						
Opening net book amount	12,809,200	31,372,497	541	2,855,587	65,315	47,103,140
Additions	-	544,765	-	974,158	566,647	2,085,570
Disposals, net	(3,240,000)	(1,445,239)	(35)	(77,087)	(61,502)	(4,823,863)
Depreciation charges	-	(1,720,011)	(506)	(1,091,336)	(139,682)	(2,951,535)
Closing net book amount	<u>9,569,200</u>	<u>28,752,012</u>	<u>-</u>	<u>2,661,322</u>	<u>430,778</u>	<u>41,413,312</u>
<b>At 31 December 2004</b>						
Cost	9,569,200	30,430,870	-	8,821,735	1,142,312	49,964,117
<u>Less</u> Accumulated depreciation	-	(1,678,858)	-	(6,160,413)	(711,534)	(8,550,805)
Net book amount	<u>9,569,200</u>	<u>28,752,012</u>	<u>-</u>	<u>2,661,322</u>	<u>430,778</u>	<u>41,413,312</u>

#### 4 Property, plant 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 2004 amounting to Baht 5,231,274 (2003 : Baht 3,879,434) has been included in the statement of revenues and expenditures.

#### 5 Capital and reserve fund balance - restricted

	<b>2004 Baht</b>	<b>2003 Baht</b>
The capital fund	17,366,637	14,465,579
Reserve for building improvement fund	5,200,405	2,200,405
Reserve for staff educational fund	6,631,296	7,062,892
Reserve for staff medical welfare fund	744,224	1,005,755
Reserve for social services fund	4,160,383	-
	<u>34,102,945</u>	<u>24,734,631</u>

##### **Reserve for building improvement fund**

The Foundation has established a reserve for building improvement fund in 2004. The appropriate amount of which is allocated from operating fund.

##### **Reserve for staff educational fund**

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

##### **Reserve for staff medical welfare fund**

The Foundation has established a reserve for staff medical welfare fund. The appropriate amount of which is allocated from operating fund.

##### **Reserve for social services fund**

In 2004, the Foundation has established an initial fund for social services which was allocated from operating fund. The future appropriate amount of contribution to the fund will be based on the consideration by the Foundation.

#### 6 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	62,874	144,121	869,245	1,076,240	1,551,083
Others	1,970,661	1,236,121	31,812	3,238,594	3,610,422
	<u>2,033,535</u>	<u>1,380,242</u>	<u>901,057</u>	<u>4,314,834</u>	<u>5,161,505</u>

#### 7 Fund transferred - completed projects

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

#### 8 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 1,221,526 (2003 : Baht 12,692,946).

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## Reports

- **Development of a Natural Resources and Environmental Management Model for Local Authorities**, a Final Report (in Thai) and an Executive Summary (in both Thai and English) submitted to the Office of Natural Resources and Environmental Policy and Planning, Ministry of Natural Resources and Environment, 2004.
- **Development of Thailand Sustainable Development Indicators (SDI)**, a Final Report (in Thai), an Executive Summary and a Guidebook (in Thai) submitted to the National Economic and Social Development Board, 2004.
- **Elaboration of Economic Instruments for Industrial Air Pollution**, a Final Report (in Thai) and an Executive Summary (in Both Thai and English) submitted to the Department of Industrial Works, Ministry of Industry, 2004.
- **Environment 2004**, proceedings and summary of the Forum for Annual Report on Environment 2004, 4-6 June 2004, Bangkok.
- **JBIC Workshop: Environmental Education for Sustainable Development**, a report (in Thai and English) submitted to the Japan Bank for International Cooperation, 2004.
- **Life Cycle Inventory for Cement Product and Steel Making Towards Sustainable Development**, a Final Report (in Thai) submitted to the Thailand Research Fund, 2004.
- **Manual of Cleaner Production in Thai Food Industries**, a report (in Thai) submitted to the Pollution Control Department, Ministry of Natural Resources and Environment, 2004.
- **Master Plan for Community Environmental Management: Rural-Urban Hierarchy, Community Environmental Indicators, and Master Plan for Community Environmental Management**, a Full Report (in Thai) and an Executive Summary (in both Thai and English) submitted to the Office of Natural Resources and Environmental Policy and Planning, Ministry of Natural Resources and Environment, 2004.
- **Situational Analysis on Education for Sustainable Development in the Asia-Pacific Region (Southeast Asia) (2004-2005)**, a report submitted to UNESCO Bangkok, 2004.
- **The 11<sup>th</sup> Anniversary Report of the Thailand Business Council for Sustainable Development**, a report, 2004.
- **The 2003 Annual Report of the Thailand Environment Institute**, 2004.
- **The Annual Meeting Report of the Thailand Network of Eco-efficiency and Cleaner Technology**, 2004.
- **The Equity of Opportunity to Access and Manage Natural Resources, Environment, Energy and Fund for Sustainable Development**, a report submitted to the National Economic and Social Advisory Council, 2004.

## Published documents

- Japan Bank for International Cooperation. 2004. **JBIC Workshop: Environmental Education for Sustainable Development**, 25-27 August 2004, Bangkok, Thailand. Tokyo.
- Thailand Research Fund. 2004. **Public Forum: Managing Thailand's Wild Flora and Fauna in the Current Global Trend** – An Excerpt from a Publication in Thai, Bangkok.

## Books (in Thai)

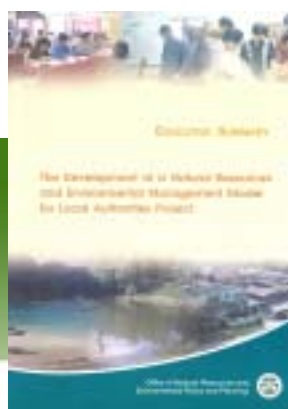
- **A Guideline for Industrial Waste Management**, 2004.
- **Application of Economic Instruments for Environmental Management**, 2004.
- **Application of Economic Measures for Pollution Control of Agricultural Activities (Swine Raising)**, 2004.
- **Application of Economic Measures for Pollution Control of Agricultural Activities (Freshwater Fish Pond Culture)**, 2004.
- **CT Guidebook – You Can Do**, 2004.
- **Directory of Recent Research and Development in Material Reuse and Recycling**, 2004.
- **Managing Thailand's Wild Flora and Fauna in the Current Global Trend** (Harakunarak, Ampai, ed. 2004. Bangkok: Thailand Research Fund.)
- **Measures for Efficiency Improvement in Textile Industry**, 2004.
- **Modern Management Handbook for Community-based Enterprises**, 2004.
- **People's Handbook: Why Do We Need to Care about Noise ?**, 2004.
- **Plibai Journal**, Vol. 59-64, 2004.
- **Series of Natural Resources and Environmental Management for Local Authorities**, 2004, (5 volumes), also available in CD-ROM format.
- **Training Manual on Management of Waste Traders for Bangkok Metropolitan Administration Officers**, 2004.



Elaboration of Economic Instruments for Industrial Air Pollution



Master Plan for Community Environmental Management: Rural-Urban Hierarchy, Community Environmental Indicators, and Master Plan for Community Environmental Management



Development of a Natural Resources and Environmental Management Model for Local Authorities



Manual of Cleaner Production in Thai Food Industries



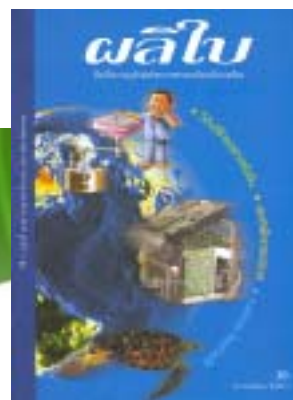
JBIC Workshop: Environmental Education for Sustainable Development



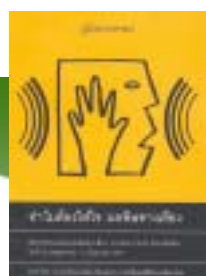
Environment 2004



The 11<sup>th</sup> Anniversary Report of the Thailand Business Council for Sustainable Development



Plibai Journal



People's Handbook: Why Do We Need to Care about Noise ?



Series of Natural Resources and Environmental Management for Local Authorities



Managing Thailand's Wild Flora and Fauna in the Current Global Trend



Modern Management Handbook for Community-based Enterprises



## Grand Opening of TEI Building

13 January 2004 – Mr. Anand Panyarachun, Chairman of the TEI Council of Trustees, was presided over the opening ceremony of the TEI new office building in Muang Thong Thani community and led the executive members and staff to plant trees to commemorate the event.



## Earth Day – Help Save Prasae River!

22 April 2004 – TEI organized a 'Help Save Prasae River!' activity with the 'Ton Chak Youth Group' in Rayong province to celebrate the Earth Day 2004. The activities covered mangrove trees planting, fish and shrimp freeing to the river, and exploring mangrove ecology.



## Bicycle Riding Campaign for Promoting the Use of Green Label Products

21 March 2004 – TEI in collaboration with the Thai Industrial Standards Institute (TISI) set up a bicycle riding trip to campaign for promoting the use of green label products. The group of 600 riders started from the National Stadium and rode to the Victory Monument Circle.



## Grade 6 Students Visited TEI Environmental Learning Center

23 September 2004 – TEI invited grade 6 students from the Wat Pasukmaneechak Primary School in Muang Thong Thani community to come, explore and discover its new Environmental Learning Center. The Center provided a wide range of environment related publications, an exhibition areas, a demonstration area of forest ecology and vegetables farming.



## Charity – Computer Donation to Sawannaket Teaching College, Laos PDR.

7-9 May 2004 – TEI and SCONTE donated used desktop computers to Sawannaket Teaching College, Laos PDR for general use.



## Bicycle Rally (BKK-Chiang Mai)

27 September - 2 October 2004 – TEI in collaboration with the Thai Cycling Club set up a campaign for energy saving by riding bicycles from Bangkok to Chiang Mai province. This bicycle rally trip attracted 110 riders and took 3 days. The group stopped at 6 provinces: Supanburi, Nakornsawan, Pitsanulok, Uttaradit, Lampang and Chiang Mai, and persuaded people to join the ride. The group also proposed to the Government to develop bicycle lanes along the roads.



## The 3<sup>rd</sup> World Conservation Forum

18 November 2004 – Khun Anand Panyarachun, Chairman of the TBCSD gave an opening speech at the 3<sup>rd</sup> World Conservation Forum held in Bangkok. The event was organized by IUCN.

## TNEC Annual Conference 2004

29-30 September 2004 – the Thailand Network of Eco-efficiency and Cleaner Production (TNEC) held an annual meeting at the Miracle Grand Convention Hotel, Bangkok. Mr. Sirithan Pairojboriboon, Former Director-General of Pollution Control Department, presided over the opening ceremony. The meeting attracted 200 participants from industrial and academic sectors.



## KEIDANREN Delegates Visited TEI

18 November 2004 – Professor Dr. Sanit Aksornkoe, President of TEI, met with Mr. Takeshi Abiru, Chairman of Nippon Keidanren and delegates, who paid a visit to TEI, and discussed about the future collaboration in environmental conservation. After the discussion, the group went to meet H.E. Suvit Khunkitti, Minister of Natural Resources and Environment at the IUCN Congress, Queen Sirikit National Convention Center.



## TEI won 'Environmental Best Practice Award'

2 December 2004 – Thailand Environment Institute was awarded a certificate in 'Environmental Best Practice,' sponsored by the National Council on Social Welfare of Thailand. TEI has been recognized innovation environmental best practice of using cleaner technology as a model. Professor Dr. Sanit Aksornkoe, President of TEI, graciously accepted the award and gave a speech entitled 'Dimension on Social Development and Thailand Environment.' This award was the crowning touch to TEI's environmental efforts as it promised to focus researches on environmental issues and advocate a participatory approach to encourage meaningful environmental progress in Thailand.



## Cleaning Bond Street

3 December 2004 – TEI organized a social event "Cleaning Bond Street" and invited people in Muang Thong Thani communities to participate in the event. Professor Dr. Phaichitr Uathavikul, Chairman of the TEI Board of Executive Directors, presided over the opening ceremony and join the activities, together with TEI staff and neighbors.

## Charity Concert for Wild Elephant

18 December 2004 – TEI organized a Charity Concert to raise fund for the implementation of activities under the Forest, Elephants, Community Co-exist Fund. The concert took place at the Kangkrachan Vittayakom School in Petchburi province, and was joined by various singers and artists from RS Promotion.





Thailand Business Council for Sustainable Development (TBCSD)



Material Exchange Center (MEC)



Thai Forest Watch Network (TFWN)



Green Label (GL)



Thailand Network of Eco-Efficiency and Cleaner Production (TNEC)



Thailand Green Purchasing Network (TGPN)



Thailand Cultural Environment Fund (Thailand-CEF)



Toxic Sufferers Fund



The Forest, Elephants, Community Co-Exist Fund



Pli bai Journal



Environmental Learning Tools for Students and Teachers ([www.thaienvi.net](http://www.thaienvi.net))



