

**C E C O**

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**CHEMICAL ENGINEERING CORPORATION**

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**in Vietnam**

## INTRODUCTION



General Director NGUYEN VAN BANG

Chemical Engineering Corporation (CECO), an autonomous corporation owned by the Ministry of Industry, was initially established in 1967 as the Design Institute for Chemical Industry (DICI). In 1993, DICI was restructured and renamed CECO. With a principal design office in Hanoi and branch office in Ho Chi Minh City, CECO is the largest and most experienced multi-disciplinary Vietnamese engineering firm serving the process industries in the country. Since our inception, the corporation has contracted hundreds of process plants and industrial facilities in all the important industrial regions of the country. CECO has worked for a number of foreign investor firms and engineering contractors and maintains active relationships with a large number of foreign firms that are investing in Vietnam.

In addition, CECO's Investment Consultancy Center, CECO's Environmental and Chemical Engineering Center and CECO's Anti-Corrosion and Construction Quality Inspection Center can provide specialists in consulting, testing and project advisory services. These specialists take due care of the particular requirements of investment consultancy, environmental compliance and the proper selection of construction materials to suit unusual processing needs and optimize application of locally available materials.

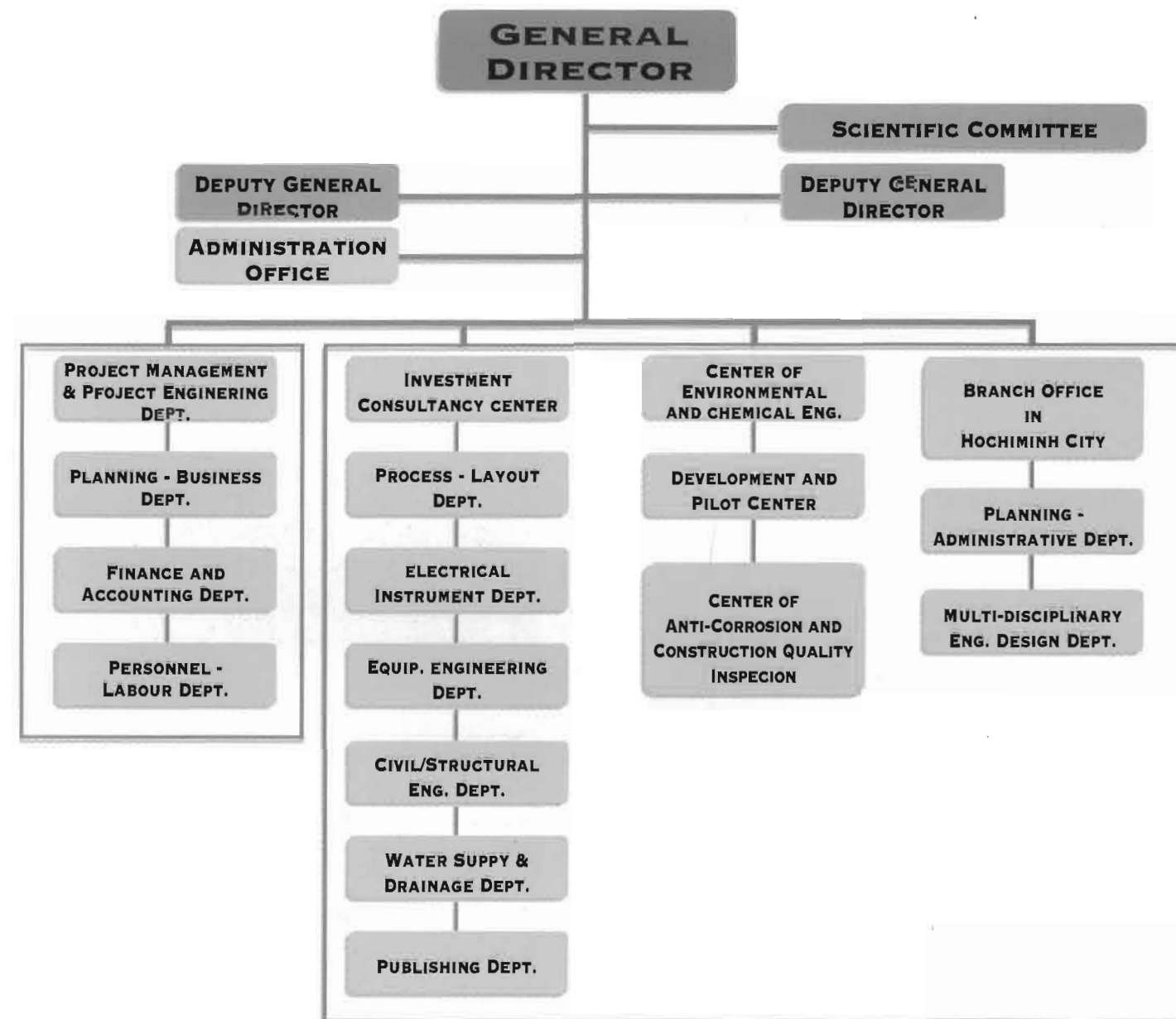
CECO warmly welcomes foreign and domestic investors and engineering firms to visit our facilities, review our capabilities and develop direct relations for future cooperation.

# ORGANIZATION & STAFF



**C**ECO's current staff covers a comprehensive range of specialist qualifications and experience. Most employees have been working for more than 15 years in the design field.

The strengthening and reorganization of CECO coincide with the introduction of new business and economic policies by the Government of Vietnam and facilitate high performance and quality assurance in CECO's services and activities.



**CECO was awarded an ISO - 9001 certification in 2000 by BVQI (U.K)**





## AREAS OF ACTIVITIES

**C**ECO provides design and engineering services for new plants as well as revamping and extension of existing plants and individual process units as follows.

**BASIC CHEMICALS**

**ORE AND MINERAL PROCESSING**

**FERTILIZERS AND AGRICULTURAL CHEMICALS**

**OIL, PETROCHEMICALS AND GAS**

**PLASTICS, RUBBER, FIBRES AND TEXTILES**

**PHARMACEUTICALS**

**SUGAR REFINING AND FOOD PRODUCTS**

**FATS, OIL, RESINS, PAINTS AND DETERGENTS**

**INDUSTRIAL PRODUCTS**

Services also cover associated storage and materials handling facilities, power generation, water supplies, effluent processing and associated project infrastructure support.



## FEASIBILITY STUDIES & PLANNING

**F**easibility studies and thorough planning are vital to ensuring a project success. CECO undertakes feasibility studies in the following areas :

- Site selection and investigations
- Scenario reviews
- Environmental impact assessments
- Financial analysis including profitability evaluation
- Modeling and system analysis.
- For these project feasibility studies CECO uses the most advanced engineering techniques and technological



## PROJECT MANAGEMENT

**A**t CECO each project begins with the careful selection of a project task force. An experienced project manager is appointed to assemble and lead the task force for the entire project. From preparation of the technical and financial proposal to project completion, this team leader assumes responsibility for the project. The team's duties extend over all phases of the projects, ranging from feasibility study, planning, design, procurement and construction to operation. As a result of CECO's effective project management and monitoring, we have delivered the majority of our projects both on budget and on schedule.



## DESIGN & ENGINEERING

**C**ECO offers both basic design and detailed engineering for many types and sizes of projects. As well as the process engineering services, site survey work and conceptual study work involved at the front end of the project, CECO is staffed for the full range of disciplines that may be involved in a multi-disciplinary project for a processing plant or industrial production facility, including :



- Process design and engineering
- Plant layout, Piping design
- Civil, structural and architectural design
- Instrumentation design
- Electrical design
- Mechanical and equipment design.

CECO is dedicated to quality assurance and the protection of our client's interest in respect of energy conservation, safety and the control of hazards and risks.



## CONSTRUCTION MANAGEMENT

**C**ECO is able to provide a full team of specialists for site management of the construction performed by selected construction firms. CECO's construction management also comprises the field planning, schedule control and monitoring for quality assurance. When construction management is performed directly by the investor or foreign contractor, CECO provides construction advisers, who assist in site work to meet project demands. CECO plans and monitors the testing and precommissioning of plants and facilities. When required, CECO provides appropriate teams of specialists to assist in the start-up.



## PROCUREMENT

**C**ECO is equipped to provide complete procurement services for all equipment and materials required for a process industry of industrial project. CECO also participates in bidding and contracting of constructing firms for the site work and assists the project and construction management personnel in the evaluation and selection of bids. For special equipment required from outside the country, CECO either arranges direct procurement and importation or works through foreign engineering firms as appropriate.





## ENVIRONMENTAL SERVICES



**C**ECO's Environmental Center specifically aims to protect the environment and to avoid pollution of air and water, our expertise in this discipline encompasses

- Environmental assessment
- In-plant pollution control, wastewater treatment, air pollution control and treatment of solid wastes for safe disposal
- Waste minimization methodology
- Noise abatement



## INTERNATIONAL RELATIONS

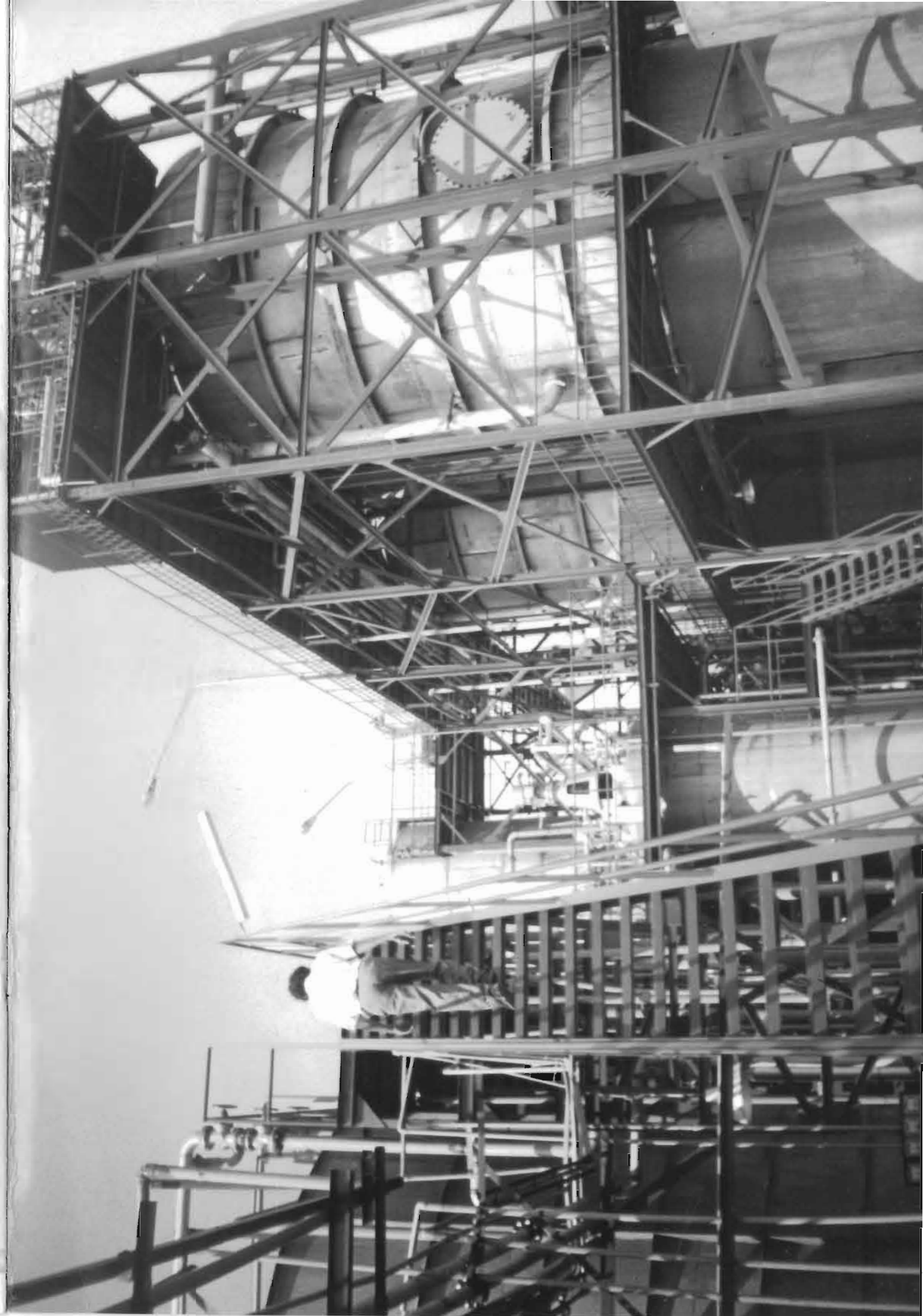
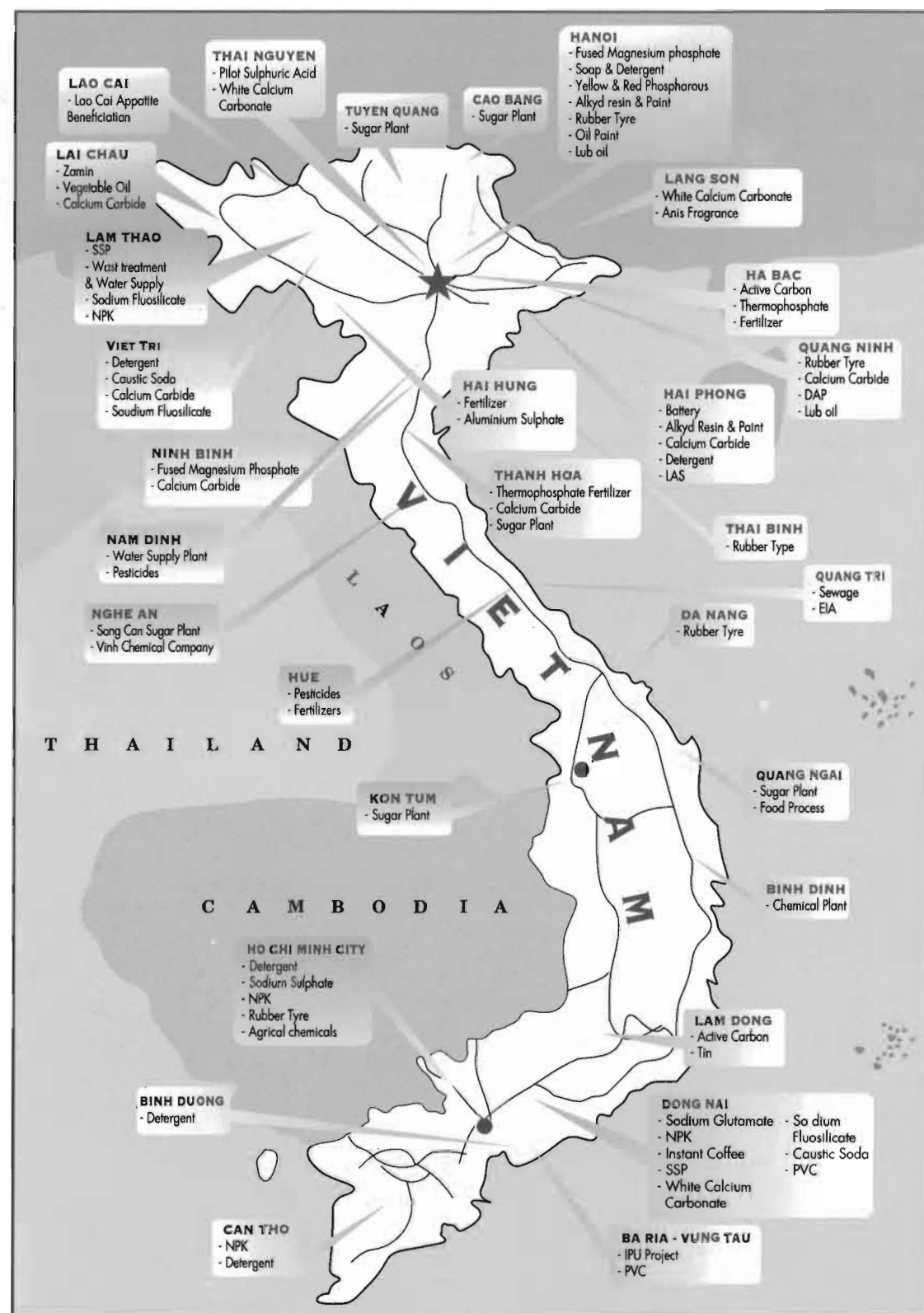
**S**ince 1989, CECO has received assistance through the UNDP-UNIDO project "Strengthening of the Design Institute of Chemical Industry". This project has improved CECO's management and design capabilities to support present and future requirements of Vietnam's process industries. It has allowed CECO to execute local projects according to international standards and has facilitated smooth interfacing with a wide variety of foreign engineering firms involved in investment projects in Vietnam. CECO pays great attention to cooperation with these international companies. The corporation has introduced advanced technologies, encouraged technical exchange visits and involved itself in joint investigation and design on new investment projects. This has allowed CECO to develop good working



relations and effective joint project experience with a range of leading engineering firms outside Vietnam. CECO's work with countries such as Australia, China, Finland, France, Italy, Malaysia, Japan, Netherlands, Taiwan, S.Korea and the United States,... has strengthened international friendships and laid a foundation for extensive future cooperation.



# GEOGRAPHICAL DISTRIBUTION OF ACTIVITIES







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