



EC-ASEAN ENERGY FACILITY (EAEF)



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SUMMARY OF PROJECT IMPLEMENTED UNDER EAEF CO-FINANCING

Date of the Summary: 28 February 2007

Contract: 56-2003
Title of project: Feasibility Study for the Implementation of Energy Integrated Urban Planning (EIUP) in ASEAN cities and applicability of European Approaches
Beneficiary: Centric Austria International (Austria)
Partners: Institute of Urban Environment and Human Resources (IUEHR), Panteion University (Greece)
Centre for Energy Environment Resources Development, Foundation for International Human Resource Development (CEERD-FIHRD) (Thailand)
Project Start: 6 April 2004
Project End: 5 June 2006
Facility: 3 Feasibility Study **Sector:** Electricity
Total planned project cost: EUR 597,502
Endorsed/contracted EC contribution: EUR 298,751 representing 50%
Realised total project cost: EUR 588,188.93
EC contribution: EUR 294,094.46

1. Summary of the project

The project aimed specifically to prepare the integration of energy and environmental concerns in development planning of ASEAN cities by assessing the energy and environment profile and urban planning process in three selected host cities and by studying the applicability of European best practices in the ASEAN context. The energy and environment situation and characteristics and urban planning process were studied through site visits and field interviews with key stakeholders during the technical missions. Pre-feasibility studies of selected and highly potential projects were conducted. These projects were expected to promote the uptake of renewable energy and energy efficiency projects at community or city level.

2. Objectives

The project's primary objective was to prepare the integration of energy and environmental concerns in urban planning in ASEAN cities through case studies and by referring to relevant European experience.

3. Activities

The project's major activities were:

- Survey and pre-screening of ASEAN cities
- Project Kick-off meeting and selection of candidate host cities
- Regional policy level inception workshop, negotiation and agreement with host cities
- Community Energy Assessments
- Assessment of energy and environment aspects of urban planning in host cities and identification of preliminary community energy and environment projects
- Study of Applicability of European approaches and European study tours

- Assessment of preliminary CEEPs and pre-feasibility study of selected CEEPs
- Final report and regional dissemination

4. Outputs

- 34 ASEAN Cities were approached. Questionnaires were distributed first to 34 respondents from 30 cities and municipalities in the target 7 ASEAN countries then later to 8 additional respondents from 8 cities in Vietnam, Lao PDR and Thailand. 7 questionnaires were returned from the Philippines, Thailand and Lao PDR, 3 more since the kick-off meeting and 2 from Vietnam. From these cities, 3 were selected to become host cities for continuing the remaining project activities.
- Kick off meeting was held in Jakarta on July 07 to 09, 2004
- The regional policy level inception workshop was held from October 19 to 20, 2005 in Bangkok attended by 29 participants from various organizations.
- Community Energy Assessments and detailed energy and environment assessment in the three host cities of Can Tho City (Vietnam), Naga City (Philippines) and Luang Prabang (Laos) were conducted. A study tour to Europe was held from 26 June to 10 July 2005 to familiarise the ASEAN experts with adequate European experiences.
- Community-based energy-environment projects were identified and ranked based on a set of criteria. Accordingly, each host city chose one or two projects for which a pre-feasibility study was done.
- A regional dissemination workshop was conducted from 13-14 March 2006 in Bangkok to disseminate the results of the project attended by 47 participants from different organisations in ASEAN and key stakeholders.

5. Impacts

The project has provided the urban planners from selected ASEAN cities with knowledge and tools for integrating energy and environment concerns in the urban planning process. The target groups had first hand knowledge of lessons from European experiences thereby enlightening them on the requirements to make sustainable planning of cities successful.

The project succeeded in formulating energy strategies and action plans for each of the cities highlighting their respective energy vision and mission focusing on community energy projects that can be implemented in the near term. The learning-by-doing approach ensured local ownership of the results and responsibility for carrying them out. Among others, the three host cities learned the value of a reliable database planning and that Energy Integrated Urban Planning (EIUP) is not a single activity, but a permanent process, which needs continuation and period updates.

5.1 Energy impact:

Not immediately applicable. However, it should be recognized that a considerable slice of the total final energy consumption of a country is accounted for in the operation of industrial, commercial, institutional establishments and residential units located in cities. City development planning should therefore be carried out with sufficient knowledge of the energy implications of all development activities that will be formulated.

5.2 Environmental impact:

Not directly applicable.

5.3 Business impact:

The technical capacities of the target urban planners in the host cities not only improved through their participation in in-house training on energy integrated urban planning. These activities also gave them the opportunity to widen their networks and be oriented

with concepts, methodologies and tools of energy-environment planning, economics and policy at city level.

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