

Feasibility study for the establishment of an Energy Manager Accreditation Scheme for the ASEAN region.



1. Summary of the project

ASEAN member countries have been active in promoting energy efficiency and conservation through regulations and policies. While certain success has been achieved, regulations and policies have not yet resulted in a shift to a more proactive approach to energy management by energy end-users.

The aim of the Action was to facilitate the establishment of an "Energy Managers Accreditation Scheme" (EMAS) for the ASEAN region through a detailed feasibility study.

There were two target groups for this Action: organizations representing member countries in the ASEAN EE&C-SSN (first target group) and Energy managers from the ASEAN region (second target group).

The main activities carried out were formation of a Project Steering Committee, extensive review of European and ASEAN national accreditation schemes and experience in energy efficiency and conservation, definition of a Code of Practice for energy managers, formulation of pre-requisite criteria for accreditation of energy managers, policy & procedures for the "Energy Manager Accreditation Scheme", design of a detailed implementation plan including financial analysis for the establishment of the "Energy Manager Accreditation Scheme", organisation of a regional consultation process through web site, regional workshops (three) and PSC meetings, finalization of the feasibility study report and presentation of this report to Project Steering Committee (PSC) members and other relevant stakeholders during a closing workshop.

The "Feasibility Study for the Establishment of an Energy Manager Accreditation Scheme for the ASEAN Region" was presented to the EE&C SSN 8th Annual Meeting in Kuala Lumpur in May 2004. The EE&C SSN Focal Points decided to accept the invitation of the project beneficiary to act as the Project Steering Committee, in order to guide and advise the project team and ensure that the design of the ASEAN Energy Manager Accreditation Scheme would be in line with ASEAN member countries' objectives and policies relative to the promotion of energy efficiency and conservation.

The following represented the core elements of the AEMAS:

- Recommended Code of Practice for Energy Managers;
- Recommended Accreditation Procedures for Energy Managers;
- Recommended Certification Procedures for Organizations.

2. Objectives

- To establish an "Energy Manager Accreditation Scheme" (AEMAS) for the ASEAN region, by providing a detailed feasibility study and having relevant stakeholders agree on its establishment
- To facilitate regional cooperation in the field of energy efficiency and conservation, by ensuring that representative organizations from minimum 4 ASEAN countries are involved in the establishment of the "Energy Manager Accreditation Scheme", and that the Accreditation Scheme is officially recognized by regional forums, associations or bodies
- To create regional markets for energy managers, by offering energy managers from the ASEAN region a regionally-recognized accreditation scheme that will increase their business opportunities in the region

- To further promote energy efficiency and conservation in ASEAN, by providing ASEAN member countries with high-level training curricula on energy efficiency and conservation, and enhanced regional cooperation in the field of energy efficiency and conservation, which will result in increased awareness, capacity building and thus increased number of energy efficiency and conservation projects in the region

3. Activities

- Inception Meeting
- Formation of the Project Steering Committee
- Preparation of a database of energy efficiency and conservation players in the ASEAN region, and evaluation for the potential role they could/should play in the establishment of the "Energy Manager Accreditation Scheme"
- Design and implementation of the Action's web site
- Review current national accreditation systems in Europe
- Review current national accreditation systems in ASEAN, prepare Accreditation Procedures for Energy Managers, Certification Procedures for Organisations, and conduct market acceptance testing
- Conduct regional consultation through regional workshops, PSC meetings and Action's web site
- Design the outlines of the training curricula, energy manager's workbook, training providers guidebook, and virtual-reality workshop
- Prepare the "Energy Manager Accreditation Scheme" implementation plan and perform financial analysis
- Finalize the feasibility study final report
- Organise a closing workshop
- Proceedings/ handouts for 3 regional workshops
- Feasibility study final report
- Web site
- Database on energy efficiency and conservation key players in ASEAN
- Report on the status of energy efficiency and conservation policies and programs in ASEAN member countries
- Report on the current energy managers' accreditation schemes in Europe
- Roadmap for the establishment of the ASEAN Energy Manager Accreditation Scheme

Main results:

- Recommended Code of Practice for Energy Managers
- Recommended Accreditation Procedures for Energy Managers
- Recommended Certification Procedures for Organisations

5. Impacts

The recommended structure and core elements of the ASEAN Energy Manager Accreditation Scheme (AEMAS) were endorsed by the ASEAN Senior Officials on Energy Leaders in June 2005 in Phnom Penh, Cambodia. The Asian Development Bank has also signed a Memorandum of Understanding with the ASEAN Centre for Energy (ACE) to finance the 1st phase of the establishment of the AEMAS, to start before the end of 2006.

5.1 Energy impact:

When the ASEAN Energy Manager Accreditation Scheme (AEMAS) is established, it is expected that 250 energy managers from industrial and commercial facilities will be accredited, and 100 energy end-users certified. The AEMAS will therefore significantly accelerate the adoption of sustainable energy management systems in industrial and commercial facilities and foster the implementation of energy

efficiency improvement measures. As a result, the energy intensity of the economy will be reduced, enabling ASEAN member countries to reduce their consumption/production of electricity.

5.2 Environmental impact:

The improvement of energy efficiency in industrial and commercial facilities will contribute to reduce emissions of greenhouse gases, which will contribute to improve air quality and fight global warming.

5.3 Business impact:

By adopting sustainable energy management systems and getting internationally-recognized certification, industries will improve not only their economic performance but also enhance their corporate image, which will lead to increase a their business potential (increased sales due to better public acceptance and better prospects to doing business with international partners).

