Project Summary

Project Background
Unfavourable framework conditions prevent the Mexican energy sector to make use of large potential for increasing energy efficiency (EE) and for using renewable energy (RE). Major reasons are a lack of clear policy objectives, strategies, beneficial legal and regulatory frameworks, the lack of support mechanisms and dissemination programs with a stronger involvement of the private sector as well as a lack of awareness and of practical experiences and training opportunities for the relevant actors.

Project Objectives
The project is part of the GIZ program on “Sustainable Energy in Mexico”. It aims to improve the framework conditions to increase EE and the use of RE (especially solar thermal) in the Mexican building sector.

Project Activities
The activities of the project focused on three main lines of action. The first field of action centered on the structuration of the legal, regulatory and normative framework, as well as on the improvement of the enforcement mechanisms. Another key area was the development and implementation of an evaluation and certification system to assess the energetic and environmental performance of residential buildings, which allows international financing programmes to quantify the reduction in CO2 emissions, compared to a baseline. The third line of action focused on capacity building, organisational development and awareness rising, addressed for example at municipalities, energy consultants, technicians and local government employees.

Services Provided
- Development and implementation of a benchmarking system for buildings of the Federal Public Administration;
- Consultancy to municipalities in adapting building codes in the areas of EE and RE;
- Elaboration of a manual for the application of the NOM-020-ENER-2011 (EE in the thermal envelope of residential buildings);
- Development and implementation of an evaluation system for the assessment of the energetic and environmental performance of residential buildings, SISEVIVE-ECOCASA (Green Housing Evaluation System);
- Development of a tool (DEEVi – Energy Efficient Design of Residential Buildings) for the energetic evaluation and the registration of residential buildings in the National Housing Register (RUV);
- Implementation of surveys/studies on EE in the building sector, e.g. classification of building types of social housing in different climate zones and modelling the effects of further EE measures such as improved ventilation and insulation;
- Support of municipalities and associations in the implementation of building regulations, urban development and incentive programmes;
- Proposal for a technical design of a NAMA for new residential buildings;
- Implementation of information campaigns and awareness raising events;
- Development of training materials and curricula in the fields of EE and RE for the technical professional training directed at the construction sector;
- Train the trainer courses; training and knowledge transfer to municipalities in the fields of EE and RE;
- Technical assistance in the development of a professional certification scheme for Energy Consultants;
- Organisation of study tours and trainings for important actors and associations;
- Organisational development services to ministries, municipalities and associations;
- Fostering of the technology transfer and exchange with cooperation partners from other countries (universities, industry, associations).