Project Summary

Brazil

Renewable Energy and Energy Efficiency (4E) – Component "Education and Training"

Client

German International Cooperation (GIZ)

Duration

01/04/2013 - 30/04/2018

Personnel

• 2 internat. LTE (58 PM, Team Leader)
• pool of internat. STE (6 PM)
• pool of nat. Senior STE (11 PM)
• pool of nat. Junior STE (15 PM)

Project Background

Since 2009 the TA module 4E supported Brazilian institutions in strengthening the role of renewable energy (RE) - in particular wind, photovoltaic, solar water heating, biogas - and energy efficiency (EE) in the Brazilian energy supply.

Coordinating partner of the project was the energy planning authority Empresa de Pesquisa Energética (EPE) based in Rio de Janeiro; further implementing organisations include the regulatory authority Agência Nacional de Energia Elétrica (ANEEL), the vocational training provider Serviço Nacional de Aprendizagem Industrial (SENAI) and financial institutions such as CAIXA and Banco Nacional de Desenvolvimento Econômico e Social (BNDES).

The project supported at the macro and meso level (ANEEL, EPE, associations, banks) through the transfer of know-how on RE and EE in order to provide qualitative and productive framework conditions for a large-scale implementation of these technologies. In cooperation with RE-associations know-how of pilot projects with reproduction character has been disseminated. Close cooperation with the KfW provided the basis for the planning and implementation of photovoltaic systems.

The second phase of the project comprised three components: energy efficiency (component 1), renewable energies and grids (component 2) as well as education and training (component 3).

Project Objectives

The component "education and training" aimed to develop and implement needs based and tailor-made qualification concepts for the staff of relevant educational institutions and professionals on priority 4E themes, in particular: wind power, photovoltaic, solar water heating, EE in industry, buildings and water supply.

The methodology comprised technical advice, facilitation of coordination processes, initiation of cooperations with universities, companies, business associations etc., co-financing of studies, informative meetings and study tours as well as education and training activities and offers.

Project Results

• Relevant institutions (EPE, ANEEL, etc.) possess suitably qualified personnel in the 4E field.
• New formal concepts for quality assured training programs on 4E-subjects are presented to various institutions and established in selected training centres such as regional SENAI departments, Centro Paula Souza and Federal Institutions.
• An information system for the compilation of the demand in qualified personnel and training offers is developed for the 4E sector.

Services Provided

• Analysis of existing proficiencies and subsequent delineation or adjustment of professional profiles in the 4E field;
• Training requirement assessment;
• Development of educational and vocational training concepts;
• Development of Curricula in 4E fields;
• Elaboration of didactic materials;
• 4E-infrastructure development in vocational training centres (e.g. regional SENAI), including equipment prospecting and workshop planning;
• Initiation of cooperation with the industry for the realization of training courses;
• Implementation and evaluation of new training courses;
• Training of trainers and of experts in the partner organisations;
• Support for the development of a certification systems for qualified personnel in key areas (wind power, photovoltaic, solar water heating, EE); 
• Organisation and realization of study tours;
• Development of an information system for continuous recording of training needs and Training offers in the 4E sector;
• Project management and monitoring.