Project Summary

Project Objectives
The programme was implemented under supervision of the Ministry of Electricity & Water (MEW) and consisted of three components. The objective of the Component 1 was the provision of a reliable and affordable electricity supply in the Wardak valley. The objective of the Components 2 + 3 was the provision of reliable and affordable electricity supply to/in selected district/major towns of the northern provinces, which are not connected to the country's electrical network. The electricity supply should support the economic development and increase the population's living standard of the areas.

Project Activities
COMPONENT 1: REHABILITATION OF CHAK-E-WARDAK POWER SUPPLY SYSTEM (3.3 MW).
• Phase 1: Study Phase and Immediate Measures:
  - analysis of the hydro power plant and the distribution system;
  - identification of the rehabilitation needs and requirements to be carried out including cost estimate;
  - elaboration of a proposal for the most appropriate set-up and procedures to execute the rehabilitation;
  - implementation of urgent measures of minor volume.
• Phase 2: Implementation of the Rehabilitation:
  The intended implementation phase was cancelled in 2011 due to security reasons.

COMPONENT 2+3: REHABILITATION AND/OR CONSTRUCTION OF SMALL HYDRO POWER PLANTS IN THE NORTHERN PROVINCES (1 to 3 MW)
• Inception Phase:
  Identification of 4 hydropower sites incl. Transmission/distribution (T&D) systems; first preliminary assessments and ranking of the sites, taking into account not only technical, but also financial, socio-economic, environmental and development aspects.
• Feasibility Phase:
  Preparing of feasibility studies incl. Environmental and social impact assessments on 3 of the identified sites/systems adequate for the construction (2 sites) and rehabilitation (1 site) of small hydro power stations and electricity supply systems.
• Design and Tender Preparation Phase:
  Tender design for 2 construction schemes and 1 rehabilitation scheme; preparing of tender documents for national and international competitive bidding (supply and erection of hydro-mechanical/electrical equipment).
• Implementation Phase:
  Site supervision of the T&D Works for the Faizabad electricity supply scheme from the beginning of the site activities to the commissioning; assistance to the Employer in managing the T&D contract.

Services Provided
• Studies on rehabilitation / construction of small hydropower plants
• Implementation of feasibility studies on 3 hydropower sites incl. environmental and social impact assessments
• Preparation of tender design and tender documents for complete hydro schemes
• Technical site supervision and assistance on contract management of T&D Works until commissioning
• Project management

Afghanistan
Renewable Energy Programme for the Electricity Supply to Rural Centres and Areas

Client
German Development Bank (KfW)

Duration
11/2007 - 04/2014

Personnel
• 8 internat. Experts (111 PM)
• 4 national Experts (192 PM)