

Project Summary

Project Objectives

The objective of the Component 1 is the provision of a reliable and affordable electricity supply in the Wardak valley in order to support the economical development within the valley. The objective of the Component 2 is 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, in order to support their economical development and to increase the population's living standard.

Project Activities

COMPONENT 1: REPAIR/REHABILITATION OF THE CHAK-E-WARDAK POWER SUPPLY SYSTEM (3.3 MW).

During the short study phase which shall last about six weeks, the consultant shall analyse the hydro power plant and the distribution system, identify the rehabilitation needs and requirements to be carried out within the second phase, and elaborate a proposal for the most appropriate set-up and procedures to execute the rehabilitation. During the second phase the consultant shall manage, organise, procure the required supplies, control and supervise the rehabilitation of the plant and system in all technical and financial aspects including all required procurement procedures and up to the commissioning of the plant.

COMPONENT 2: REHABILITATION AND/OR CONSTRUCTION OF SMALL HYDRO POWER PLANTS IN THE NORTHERN PROVINCES (1 to 3 MW)

Inception Phase shall be concluded by first preliminary assessments and ranking of the sites, taking into account not only technical, but also financial, socio-economic, environmental and development aspects. The Feasibility Phase shall be concluded by a meaningful ranking of the sites/systems and by short concise reports on each of the potential developments for decision making on the stations/systems to be retained during the next phase. During Design and Tender Preparation Phase the Consultant carry out the tender design for the schemes and shall prepare tender documents for national and international competitive bidding (supply and erection of hydro-mechanical/electrical equipment). In the Implementation Phase the beneficiary will be assisted during tendering, tender evaluation and contract award process and supported by technical site assistance to the commissioning of the electricity supply scheme.

Implementation Features

C1: Analysis of hydro power plant and distribution system; Identification of rehabilitation requirements; Cost Estimate for the rehabilitation requirements; Elaboration of the rehabilitation programme, organisation and management of procurement and purchase activities; evaluation of bidding results; controlling of disbursements; site supervision.

C 2: Hydropower site screening; Feasibility Studies, Elaboration of tender design and tender documents; Assistance during the tendering, tender evaluation, site supervision until commissioning.

Services Provided

- Rehabilitation / construction of small hydropower plants
- Financial management of a disbursement fund
- Implementation of feasibility studies
- Preparation of tender design for complete hydro schemes
- Assistance during tendering, procurement and site supervision until commissioning
- Project management

Afghanistan

Programme Decentralized Power Supply through Renewable Energies

Client

KfW / Ministry of Energy and Water

Duration

12/2007 - 08/2011

Personnel

- 8 internat. Experts (57 PM)
- 4 national Experts (152 PM)

