Sustainable Heating Options for Non-industrial Consumers in Tajikistan

19/11/2003 - v0

Approach

- First Study Visit 8th - 15th November
- Discussions with Bank and agreement of Work Programme
- Mobilisation December 2003
- Discussions with relevant authorities and strakholders
- Establishment of Project office in Dushanbe
- Employment of Office Staff and Experts

Facilities provided by Clients

- Office accommodation
- basic office furniture
- utitlity and communication charges

Reporting

- Inception Report
  - Clarification of Work Programme
  - One month after project approval
- Monthly Progress Report
- Draft Final Report
  - End of March 2004
- Final Report
  - End of April 2004
- Language
  - English
  - Russian
- Recipients
  - World Bank
  - EuropeAid
  - Local Client
- Enter Sub-topic
- Requirements
  - PDF and MS Office format by email.
  - Hard copies available on request

Requirements

- Target sectors
  - Centralised heating systems
  - Decentralised heating systems
  - Individual heating systems
- Equipment
  - Computer / Printer / Scanner
  - Telephone / FAX / Internet
  - Car Hire and Driver
- Visa and Work Permits
- Budget
  - € total budget € 400,000
  - € incidental budget € 100.000

Objectives

- wider
  - Identify sustainable heating options
  - Recommend specific investments
- specific
  - Analysis of the sustainability of the current heating practices
  - Outlining options to meet the heat demand
  - heating options for urban, semi-urban and rural areas
  - Define institutional and financing options of recommended heating strategy

Project Tasks

- 1: Analysis of Current Heating Practices
  - Review of available reports
  - Technical assessment
  - Financial assessment
  - Economic viability
  - Institutional assessmrent
- 2: Heat Demand Projections
  - 1. Dushanbe & Yavan
  - 2. Other urban areas
  - 3. Rural areas
- 3: Definition of Heat Supply Strategy
  - 1. Dushanbe & Yavan
  - 2. Other urban areas
  - 3. Rural areas
- 4: Resources, Physical Infrastructure Needs
  - (ii) physical infrastructure needs
  - (i) resource availability
  - (iv) prioritization of investment needs
  - (v) economic assessment of options
  - (vi) financial - cost recovery heat tariffs.
  - (iii) technical options
- 5: Institutional Analysis and Environmental Assessment
  - a) institutional analysis
  - b) socioeconomic impact assessment
  - c) environmental impact assessment
  - d) outline possible financing mechanisms
  - e) workshop with key stakeholders
  - f) sustainable heating model

Personnel

- Project Management
- Team Leader / District Heating
  - Definition of semi urban heating strategy
  - Identificaqtion of projects
  - Assessment of heat demand
- Rural Development/Institutional
  - Definition of rural heating stratigies
  - institutional / organiz. restructuring
  - socio-economic Impact assessment
  - Identification of projects
- Financial Analysis
  - financial audits / review of accounts
  - financial analysis
  - creditworthiness analysis
  - tariff reform
  - Financial analysis of selected projects
- Combined Heat and Power
  - Assessment of heat production in cities
  - Definition of renovation needs
  - Development of heating stratigy in cities
  - Identificaqtion of projects
- Hydro/Electric Power
  - Hydro potentional for heat supply
  - Renovation needs of hydro plants
  - Identificaqtion of projects
- Environmental
  - Environmental assessment of selected projects
- min. of 70% of time in Tajikistan