### Project Summary

**Project Background**
Some 85 per cent of the rural population of Afghanistan have no access to modern sources of energy and are heavily dependent on inefficient use of fossil fuels. Electrification of the major cities has improved while rural electrification continues to be hampered due to lacking capacities of decision makers and energy planners, poor quality in implementation and insufficient capacities in management, operation and maintenance.

Based on its involvement in the GIZ ESRA programme (phase 1, 2008 – 2010 and phase 2, 2011-2013) INTEGRATION is assigned to develop a decentralized mini hydro power scheme in the province of Takhar, Warsaj district. The power scheme has been designed with two turbine units of each 250 kW of which only one was financed so far. Furthermore only 550 of potential 2,000 household connections were financed.

**Project Objectives**
Based on infrastructure projects of the Development-oriented Emergency and Transitional Aid (DETA) programme in the region which have helped to establish basic public services in the area (“backbone projects”) it has been agreed to improve the livelihoods of rural dwellers through an increase of the capacity of the power station (+ 250 kW) and an according expansion of the grid.

**Project Results**
The intended results of the project are:
- Increase of capacity by 250 kW of the plant to the nominal maximum of 500 kW;
- Expansion of the distribution network to further 700 rural households;
- Improved livelihoods through the use of quality electricity for domestic and productive purposes.

**Services Provided**
- Conflict sensitive and participatory planning approach;
- Procurement and installation of the turbine unit (250 kW Francis turbine) and the transmission and distribution system for 700 households;
- Labor intensive implementation of the T&D network with a significant local content through “cash for work” and local procurement;
- Commissioning and test operation.

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### Afghanistan

**Strengthening Livelihood Systems Project (SLS) – Warsaj, Takhar**

### Client
German International Cooperation (GIZ)

### Duration
10/2012 - 12/2013

### Personnel
- 3 internat. STE (6 PM)
- 4 national STE (14 PM)