Project Summary

Project Background
The project was part of the programme "Development of Hydropower & Renewable Energy in Khyber-Pakhtunkhwa (KPK)". The Government of Pakistan has received a grant from the Government of Germany and on this basis concluded a Financing Agreement with KfW to cover the cost of Construction of Renewable Energy (RE) based power supply projects in KPK. Part of this grant (€ 3.000.000) was used for payments under this contract for the construction of PV based power supply systems for off-grid communities in KPK.

Project Objectives
• Final design, manufacturing, supply, installation, testing, commissioning of 96 PV based power supply systems for rural communities, including training in operation and maintenance as well as the provision of after-sales services.
• The supply systems comprise a centralized PV generator, a battery storage facility and an inverter supplying 230 V/50Hz power to the distribution system, the distribution system itself and house connections including meter and respective safety devices. The systems are modular designed to allow future extension.
• Each system supplies electrical energy to a certain number of households. To ease design, supply and installations, the systems are categorized according to the number of households they serve.

Project Activities
The selected Partner Organizations of PPAF, namely SABAWON, NRSP and CMDO will be contracting partner of the successful bidder. The Partner Organisations will support the respective Community Organizations (the Recipients) in installation, operation and maintenance of the systems. INTEGRATION supports PPAF and acts on behalf of the POs SABAWON, NRSP and CMDO (the Employers).

Project Results
• About 1,200 households in 96 villages are supplied by sustainable PV based village electricity supply systems;
• Systems are operated by trained operators;
• Management system including fee collection system introduced and established.

Services Provided
• Design of 96 village supply systems
• ICB tendering of EPC contract
• Management Supervision of Implementation
• Training of operators and consumers
• Monitoring of operation