**Project Summary**

**Project Background**
To improve access to energy, Energising Development (EnDev) Ethiopia in cooperation with GIZ is supporting governmental institutions and non-governmental organizations (including private institutions and enterprises, cooperative and communities) for the construction and operation of Hydropower based Mini grids in Amhara, Oromia, SNNPR and Tigray regions of the country.

**Project Objectives**
The overall objective of the program is to facilitate self-sustainable markets for modern energy solutions in Ethiopia. The current project deals with development of 9 MHP sites in Amhara and Oromia with plant capacities of 20 to 100 kW. Technical assistance is to be provided for site identification, feasibility, final design, EPC tendering and design and construction supervision of the prospective sites.

**Project Results**
The project aims to meet the following results:
- Suitable sites for the construction of hydropower based Mini-Grids are identified
- Technical specifications, layout of water stations is prepared in line with international best practices
- Technical specification for connection to mini-grids are prepared
- Tender documents for EPC contracts are prepared based on international procurement guidelines
- EPC contracts are awarded for construction of 9 MHP plants
- Technical assistance and support is provided to contractors in planning, design, construction, commissioning and maintenance of MHPs
- The MHPs are connected to local mini-grids
- Concept for after sales services based on a private market is prepared

**Services Provided**
- Site verification missions with EnDev (and GIZ) to verify data and do final layout of the water stations
- Market surveys for identification of equipment suppliers and potential developers
- Capacity needs assessment of local (community) operators
- Preparations of drawings, elaboration of standards and technical specifications
- Preparation, review and approval of tender documents
- Technical assistance during EPC tendering, bid evaluations, and contract negotiations
- Preparation of concepts for O&M, after sales, proposal for management structures
- Technical assistance in preparation of designs
- Technical support to contractors for preparation of final designs for each sub-project
- Support in procurement of turbines by EPC contractors
- Implementation support, construction supervision and monitoring of sub-projects
- On the job training of operators
- Testing and commissioning of MHPs
- Supervision and support during Defect Liability Period (DLP)