

Developed by



European Bank
for Reconstruction and Development

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PROJECT DESCRIPTION

The plant is a run off the river type based on a 2x11.78 MW+6.68 MW horizontal axis Francis type turbines configuration with a total 30.24 MWe production. The plant is expected to produce 86.04 GWh/year equivalent to cover the demand for over 38 thousand households. The energy produced will allow saving around 47,064 tCO₂/year.

CARBON FINANCE

The Project Sponsor already signed a contract with a carbon consultant to develop the project under Gold Standard certification.

ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction activities;
- Water biota impacts;
- Use of forest area;
- Stakeholder engagement.

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- Supervision of the construction activities by environmental, social and health & safety experts to avoid, prevent, minimize and monitor potential adverse impacts on the affected social and environmental compounds;
- Biota status monitoring during operation phase;
- Installation of fish protection device to avoid fishes entering the communication channel to the power house;
- The client is waiting for the Forestry Permit and should prepare a replantation plan;
- New stakeholder involvement is required to involve and inform the stakeholders and to reduce the risk of conflicts with ensuring good public relations by considering that the meeting was held more than 5 years ago.

GENERAL INFORMATION

Project Location	Bitlis Province
Technology	Hydroelectric Power Plant
Plant Capacity	30.24 MWe
Annual Energy Production	86.04 GWh/year
Annual CO₂ Reduction	47,064 tCO ₂ /year

TIME SCHEDULE

Start of Construction	March 2013
Expected Commercial Operation	September 2015

FINANCIAL PARAMETERS

Total Project Cost	USD 66,495,319
MidSEFF Loan	USD 55,000,000
Payback Time	8.68 years
Internal Rate of Return	9.62 %