

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 3x3.2+0.8+1.7 MW horizontal axis Francis type turbines configuration with a total 12.1 MWe production. The plant is expected to produce 58.47 GWh/year equivalent to cover the demand for over 26 thousand households. The energy produced will allow saving around 33,123 tCO₂/year.

CARBON FINANCE

The Project Sponsor decided not to proceed with the Gold Standard certification.

ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction activities;
- Water biota impacts;
- Landscape rehabilitation;
- 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 tunnel entrances are seriously changed due to the use of cement to put in security the mountain slopes. Some naturalistic engineering actions to restore the areas will put in place;
- 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 2 years ago.

GENERAL INFORMATION

Project Location	Kütahya Province
Technology	Hydroelectric Power Plant
Plant Capacity	12.10 MWe
Annual Energy Production	58.47 GWh/year
Annual CO₂ Reduction	33,123 tCO ₂ /year

TIME SCHEDULE

Start of Construction	August 2012
Expected Commercial Operation	April 2014

FINANCIAL PARAMETERS

Total Project Cost	EUR 16,872,880
MidSEFF Loan	EUR 13,144,846
Payback Time	7 years
Internal Rate of Return	21.70 %