

Developed by



European Bank
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PROJECT DESCRIPTION

The plant is a run off the river type based on 2 vertical axis Francis turbines with total rated power of 9.33 MWm / 8.96 MWe The plant is expected to produce 37,350 MWh equivalent to cover the demand for over 16 thousand households. The energy produced will allow saving around 19,870 tCO₂/year.

CARBON FINANCE

The Project Sponsor of the Çarıklı HEPP has not considered carbon revenue in investment decision and made no effort for carbon certification.

ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction activities;
- Land Acquisition
- Land stability
- Water biota impacts;
- Noise, vibrations,
- Other HEPPs near the project area
- Community/workers health and safety both during construction and operation phases
- 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;
- In case of land acquisition a mutual agreement procedure is to be preferred
- Installation of fish protection device to avoid fishes entering the transmission channel to the power house;
- A monitoring Campaign has to be put in place to monitor at least: fauna, noise, vibration
- Noise monitoring campaign is recommended during construction to assure a noise acceptable level for the nearest settlements
- A cumulative Impact assessment will be developed to evaluate the cumulative impact due to the presence of other HEPPs
- Implementation/ update of workers' safety and protection action plans
- Stakeholder Engagement Plan implementation to involve and inform the stakeholders and to reduce the risk of conflicts with ensuring good public relations.

GENERAL INFORMATION

Project Location	Amasya Province
Technology	Hydroelectric Power Plant
Plant Capacity	9.33 MWm
Annual Energy Production	37.35 GWh/year
Annual CO ₂ Reduction	19,870 tCO ₂ /year

TIME SCHEDULE

Start of Construction	May 2014
Expected Commercial Operation	August 2016

FINANCIAL PARAMETERS

Total Project Cost	EUR 22,700,000
MidSEFF Loan	EUR 5,700,000
Payback Time	7.4 years
Internal Rate of Return	10.6 %