

## Developed by



European Bank  
for Reconstruction and Development

## Supported by



## PROJECT DESCRIPTION

The plant is a run off the river type based on a 2 x 8.16 MW horizontal axis Pelton type turbines configuration with a total 16.32 MW production. The plant is expected to produce 40.0 GWh/year equivalent to cover the demand for over 18 thousand households. The energy produced will allow saving around 21,800 tCO<sub>2</sub>/year.

## CARBON FINANCE

The Project Sponsor decided to go for the Gold Standard certification and has already signed an agreement with a local project developer .

## ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction activities;
- Use of forest area;
- Water biota impacts;
- Noise, vibrations,
- 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;
- The client is waiting for the Forestry Permit and prepared a trees re-plantation plan;
- Installation of fish protection device to avoid fishes entering the transmission channel to the power house;
- Biota status monitoring during operation phase;
- Noise monitoring campaign is recommended during construction to assure a noise acceptable level for the nearest settlements
- 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	Kahramanmaraş Province
Technology	Hydroelectric Power Plant
Plant Capacity	16.3 MWm
Annual Energy Production	40 GWh/year
Annual CO <sub>2</sub> Reduction	21,800 tCO <sub>2</sub> /year

## TIME SCHEDULE

Start of Construction	October 2012
Expected Commercial Operation	April 2015

## FINANCIAL PARAMETERS

Total Project Cost	EUR 20,800,000
MidSEFF Loan	EUR 13,500,000
Payback Time	6.9 years
Internal Rate of Return	12 %