

## Developed by



European Bank  
for Reconstruction and Development

## Supported by



## PROJECT DESCRIPTION

The plant is a run off river with 13.62 MWe installed capacity. Its configuration is with 2x6.81 MWe horizontal axis Francis turbines. The plant is expected to produce 37.94 GWh/year which corresponds to the demand of over 17 thousand households.

## CARBON FINANCE

The energy produced will avoid CO<sub>2</sub> emissions amounting to 20,753 tCO<sub>2</sub>/year. The Project Sponsor is in contact with MidSEFF Carbon Consultant Team for the development of the project.

## ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction;
- Water biota impacts;
- Crossing by private gardens;
- Cumulative impact with other HEPPs and power connection line;
- 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 compounds;
- Monitoring of biota status during operation phase and installation of fish protection device;
- Minimization of landscape impact hiding the ground level channel with vegetation;
- Assessment of the overall impact with power transmission line construction;
- Engagement of stakeholders to involve and inform them and to reduce the risk of conflicts while ensuring good public relations.

## GENERAL INFORMATION

|                                  |                               |
|----------------------------------|-------------------------------|
| Project Location                 | Artvin Province               |
| Technology                       | Hydroelectric Power Plant     |
| Plant Capacity                   | 13.62 MWe                     |
| Annual Energy Production         | 37.94 GWh/year                |
| Annual CO <sub>2</sub> Reduction | 20,753 tCO <sub>2</sub> /year |

## TIME SCHEDULE

|                               |           |
|-------------------------------|-----------|
| Start of Construction         | June 2013 |
| Expected Commercial Operation | July 2015 |

## FINANCIAL PARAMETERS

|                         |                |
|-------------------------|----------------|
| Total Project Cost      | EUR 19,600,000 |
| MidSEFF Loan            | EUR 26,900,000 |
| Payback Time            | 10.26 years    |
| Internal Rate of Return | 7.04 %         |