



**Small Scale Hydropower of Agios Germanos, Prespa, Florina, Greece
Environmental Impact Assessment and Rehabilitation Actions**

Country	Overall project value (EUR)	% carried out by Epsilon	No of staff provided	Name of Client	Origin of Funding	Dates [start/end]	Name of partner(s) [if any]
GREECE	2.934.703	100%	20	Public Power Corporation	Greek Government	1998	-

Project Description



The SHP of Ag. Germanos is a pilot program designed for small, remotely controlled plants in frontier distant areas. It consists of:

- A small deviation dam, without a lagoon.
- A pipeline transferring water from the dam to the plant.
- An Electric Power production Unit operating periodically.

Environmental impacts

- Change of morphological characteristics of the area and landscape aesthetics.
- Disposal of extracted material.
- Decrease of Ag. Germanos surface runoff, in the section between the dam and the plant.
- Noise pollution.
- Loss of vegetation and adverse effects on the riparian ecosystem.
- Positive impacts on social environment.

Mitigation measures

- Adaptation of the plant design to the natural environment.
- Sustaining of a minimum downstream water supply, from the diversion dam, during poor hydrological periods, to support flora and fauna.
- Securing of the required water supply from the diversion dam, to support existing agriculture and livestock activities.
- Maintenance of the brook lagoons between the dam and the power station, to support fish and biota.
- Installation of a small meteorological-climatological station, to assist in National Park management.
- Employment from the local population in order to maintain and operate the Unit.

Type of Services Provided [Outlined]

- Engineering Design proofing
- Environmental Impact Assessment
- Analysis of the Physical Environment
- Analysis of the Biological Environment
- Analysis of the Social and Financial Environment
- Demographics
- Mathematical Modelling
- Rehabilitation Measures design and development
- Awareness Raising

