

## **E.H.09.10 HYDROPOWER DEVELOPMENT OF BUZAU RIVER ON NEHOIASU – BUZAU CITY STRETCH**

### **LOCATION:**

- Buzau River, from its confluence with Basca River up to upstream the Buzau City
- Buzau County

### **HYDROPOWER INDICATORS:**

- 11 derivation HPPs with installed capacity  $I_{c_{total}} = 110.27$  MW and average output  $Em_{total} = 156.98$  GWh/year, of which:
  - 10 HPPs with  $P_{plant} < 10$  MW; benefit from the “green certificate” support programme (  $I_{c_{total}} = 88.27$  MW and  $Em_{total} = 62.38$  GWh/year)
  - 1 HPP with  $P_{plant} > 10$  MW ; does not benefit from the “green certificate” support programme (  $I_{c_{total}} = 22$  MW and  $Em_{total} = 94.6$  GWh/year)

### **INVESTMENT COST AS OF 1.01.2010:** Euro 325 millions (VAT excluded)

Of which : Euro 194.5 million for the 10 HPPs with  $P_{plant} < 10$  MW  
Euro 130.5 million for the HPP with  $P_{plant} > 10$  MW

### **PROJECT EXECUTION DEADLINE:**

The investment is estimated to be executed in phases, with 2012 as starting year. The execution period is approx. 5 years.

### **INVESTMENT SUBSTANTIATION:**

Utilizing the hydropower potential of the related stretch, which presently is not capitalized, the investment project contributes to meeting the “Strategy on energy and climate changes“, promoted through the EU legislative package regarding the energy sector, which sets as target for 2020 mitigation by 20% of green house gases emissions as compared to year 1990, by reducing the usage of primary energy (fossil fuels) and increasing by 20% the contribution of renewable energies within the total UE energy consumption (Directive 2009/28/CE)

### **PRESENT STATUS OF WORKS:**

The pre-feasibility study has been concluded.

The feasibility study is presently being developed (this is the reason why there are used estimated costs).

### **FINANCING SOURCES:**

The proposal is to finance the project through public-private partnership.