



GEOTHERMAL HEATING SYSTEM IN THE CITY OF BIJE LJINA

Project title	The installation of the new geothermal well into the district heating system
Sector	Infrastructure, Ecology
Location	City of Bijeljina
Location description	Bijeljina is an urban settlement and is the centre of local government unit with City status in the North-Eastern part of Republic of Srpska and B&H. The centre of the City is located 6 km from border with Serbia and 40 km from border with Croatia.
Project background	At the exploration locations in Semberija, temperatures range between 60°C and 130°C, and estimated thermal capacities are equivalent of about 40 million tons of petroleum. A deeper analysis, at the preliminary design level, indicates a possibility for geothermal energy to be used for the entire heating system in Bijeljina (23,600 households + industry). Geothermal water can also be used for electricity generation. Minimum electricity generation from this potential is 34,400MW/h, while minimum capacity of the minimum obtained heating energy in the form of district heating is 75,000MW/h.
Project status	City of Bijeljina Energy Plan& Bijeljina Area Geothermal Potentiality Study prepared Geothermal energy is part of City of Bijeljina Development Strategy until 2023
Project description	Geothermal well for district heating of the city of Bijeljina implies performance of preparatory works, geophysical testing of prospective locations, preparation of technical documentation and drilling, piping and testing of a geothermal well for exploration and exploitation. Expected return on investment is planned in 8 years, excluding incentives for renewable energy source use.
Estimated total investment cost	5.35 million EUR
Inputs provided by local partner	The Bijeljina City would provide locations and necessary construction permits. The entire existing hot water infrastructure would be put into operation.
Inputs required from foreign partner	5 million EUR - Investment: boreholes, hot water network expansion.
Form of cooperation with foreign partner	Public-private partnership
Supporting information available	For additional information about this project, please contact FIPA either by e-mail: fipa@fipa.gov.ba or phone number: +387 33 278 080.