



GENERATORS FOR LANDFILL GAS USE, BANJA LUKA

Project title	Generators for landfill gas use for energy at Ramići Regional landfill in Banja Luka
Sector	Energy sector
Location description	The landfill is located at Crkvine, Ramići settlement, in the north-western part of Banja Luka city, only 150 metres from M4 Banja Luka – Prijedor trunk road. The location is connected with the main trunk road by a two lane auxiliary access road.
Project background	Works on the construction of a degasification system for the old part of the landfill were completed in the end of July 2016 and a flare was installed at Ramići landfill for landfill gas flaring. It is planned to prepare a feasibility study of landfill gas use which would include specific information obtained from the measurement points at the landfill and demonstrate the actual quantity and composition of collected gas. If the feasibility study confirms the justifiability of landfill gas use, the preparation of a gas engine project and an environmental impact assessment will be started. The planned procurement includes a 250 kW gas engine, a purifier of landfill gas before entry into the gas engine, and a substation.
Project status	Business idea
Project description	The electricity generated would be used for landfill needs or distributed into the grid. The raw material, in this case municipal waste, is provided, since it concerns a regional landfill receiving waste from the City of Banja Luka and 7 neighbouring municipalities (300 tons per day on average). Also, PE DEP-OT which manages the landfill has a qualified staff. Commercial Project Application Form for Investor Search Starting from the assumption that 110 kW power would be used initially, the operation of 7200 hours annually would generate 792 MWh of electricity.
Estimated total investment cost	600,000 EUR
Inputs provided by local partner	120,000 EUR - Land, raw material, infrastructure, human resources, feasibility study, environmental impact study, project supervision, and operating permits
Inputs required from foreign partner	480,000 EUR - Procurement of 250 kW gas engine, landfill gas purifier and construction of a substation
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.