

Energy concept summary

Title of the energy concept: PV power station for petrol station Demir Kapija

Topic area choice and topic marking in blue:

- () **Building** e.g. Insulation, change of windows, Low-energy-buildings
- () **Electrical energy** e.g. Light, Compressed air, Electrical drives, Cooling machines, Load management
- () **Heat** e.g. Heating, Process heat, Heat recovery, Air conditioning, Combined heat & power
- (X) **Renewable energy** e.g. **Solar technology**, Wood-fired plants, Biogas, Geothermal energy
- () **Management** e.g. Energy buying, Contracting, Emission trade, Energy data management systems

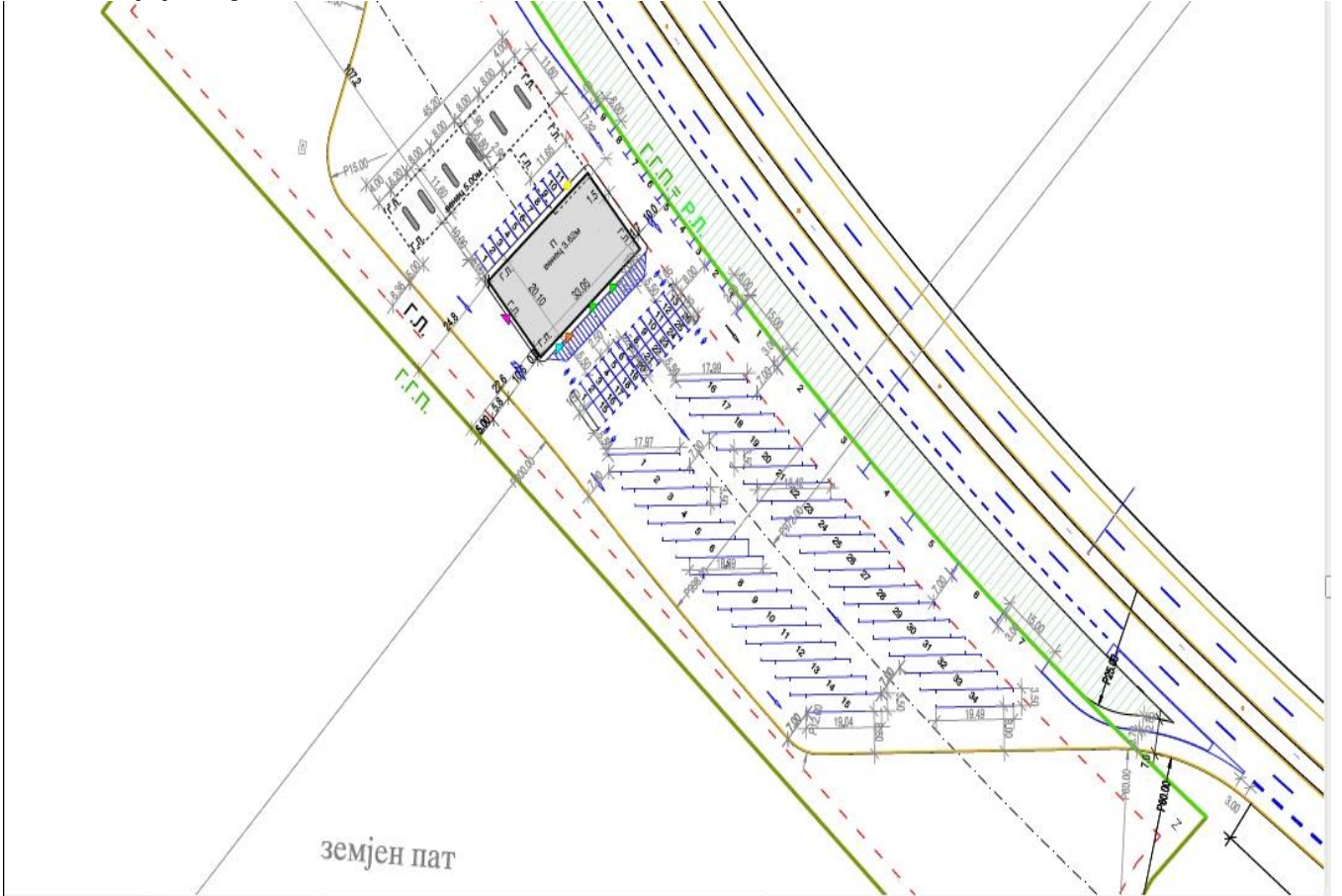


Company: DETOIL - Skopje
 Branch and NACE-Code(s):
 Products/Services: retailers of oil derivatives
 No of employees: 80
 Name of energy concept producer: Blagoja Stavrov
 Participant in EUREM No.:

Energy concept description:

For the purpose of constructing new petrol station, the plan is to use 60KW photovoltaics as secondary power source to lower the use of electrical energy from the grid. Planed PV are for internal use only, and with installed controller there will be no return power to the electrical grid.

Picture(s) of plant, Base situation etc



Results:

<p>Energy saving potential [kWh/a]: 75.000 Energy source: solar energy Cost reduction potential [Euro/year]: 8.250 CO₂- saving potential [t/a]: 81,7 (please fill in conversion factor: xy kg CO₂ per kWh)</p>	<p>Investment costs [Euro]: 51.900 Pay-back time [Years]: 6,2 Chance of implementation: (X) high () middle () low or date of implementation: starting from March 2015</p>
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