Street Lighting Project – ESCO model of PPP

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**Scope**

- Reconstruction of public lighting in 4 villages in the Municipality of Vrbas based on ESCO model
- There are 54 transformer stations with metering of energy consumption in them
- There are 2287 poles connected to transformer stations with the installed 1469 lamps
- Total installed power of lighting equipment in scope is 237,38 kW
- These are mainly inefficient old mercury lamps with high electricity consumption
- Annual energy consumption is 973.246 kWh
- Electricity costs are 48.562 euros and maintenance costs are 11.819 euros
Steps taken in preparation of the project

- The cadastre of street lighting was done for the entire territory of the municipality before the beginning of the project.
  - Every pole was recorded with a GPS device.
  - The pictures were taken for every pole and lamp on it.
  - Every pole was marked with a unique number and recorded in the database.
  - Characteristics of poles and associated lamps are also recorded in the database.
  - Belonging of each pole to transformer stations was determined.
Steps taken in preparation of the project

- Energy consumption per transformer stations has been monitored from 2007
- Last year in one village in the municipality the street lighting was reconstructed with funds from the municipal budget. Simple pay-back period is about 4,5 years.
Experience with support received from EBRD

- EBRD supported us in preparation of project proposal for public private partnership which was approved by the public private partnership commission.
- Also they supported us in preparation of tender documentation and model contract.
Key figures about the savings and investment expected

- Estimated investment 185.000 euros
- Expected energy saving is 458.052 kWh while the amount of total cost saving is 27.744 euros
Information system for energy management - ISEM
THANK YOU FOR YOUR ATTENTION

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