LED Lamp Streets in Kutaisi

Expected project CAPEX: 2’608’778 €

Mandating Authority: City Hall of Kutaisi Municipality / Administration of Imereti Region

Summary
The city of Kutaisi is a member of the Covenant of Mayors, by which it took the responsibility to reduce GHG emissions by 20% by the year 2020. To fulfill this obligation one of the main measures will be to replace the old energy intensive lighting system with a new, modern energy-efficient system, thereby consuming less energy than the existing system and consequently saving funds. These savings will be used for implementing other projects, like household waste separation and training on modern waste sorting systems.

Location and population
Kutaisi, Imereti, Georgia

Social and environmental impact
Energy savings of 50%; Reduction of operation costs for outdoor lighting systems by 90%; Improving the quality of road safety

Main stakeholders
Local population, City of Kutaisi and Imereti Regional Governments
**Project maturity (IFC / World Bank Categories)**

STAGE 1: Concept Development, Site identification
STAGE 2: Pre-Feasibility Studies
STAGE 3: Feasibility Studies
STAGE 4: Permitting / Financing / Contracts
STAGE 5: Engineering/Construction/Commercial Operation

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**STAGE 1: Concept Development, Site identification**

Number of Lighting points: 12076
Mapping of the street lighting system: YES
Current installation

**Expected energy / expenses savings**

Existing lighting system annually consumes 11.3mln KW electric energy, while the replaced one will consume only 5.3mln KW.

Source of electricity: Solar or Grid connected

**STAGE 2: Pre-Feasibility Studies**

Pre-feasibility study
YES

**STAGE 3: Feasibility Studies**

Feasibility study
YES

**STAGE 4: Permitting / Financing / Contracts**

Contract with municipality
YES
Building permits signed

**Environmental impact study**

YES. The use of the new energy-efficient technology will make the annual economy of the electricity consumption: 11 640 000 – 5 363 712 = 6 276 288 KWh. The CO2 emission coefficient in Georgia is equal 0.4kg/KWh, therefore the reduction of CO2 emission caused by the electric power savings will be equal to: 6 276 288 * 0.4 = 2,510 tons

**Identified sources of fundings**

**STAGE 5: Engineering / Construction / Commercial Operation**

Engineering, Procurement and Construction Contractor
Supplier of goods and services will be selected in accordance with the state procurement procedures.

Operation and Maintenance Contractor
Supplier of goods and services will be selected in accordance with the state procurement procedures.

**Comments**

The city of Kutaisi and Imereti Region are ready to provide co-financing of 35% of the total cost and would ideally like to receive 65% from the donor. This should not be an obstacle for the granting of the subsidy. The city and region remain open for discussion should the foundation not be able to grant the desired amount.

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