Energy efficient street lighting

Expected project CAPEX : 1'234'600 €

Mandating Authority : Buffalo City Municipality

Summary
The objective of the project is to align the city with the national strategic objective of optimizing energy usage through energy efficiency and Demand Side Management projects. The implementation of these projects will contribute towards the reduction of energy consumption on the electricity networks and thus reduce the energy demand.

Location and population
Buffalo City, South Africa
900,000 inh.

Social and environmental impact
Reduction of light pollution. The project will reduce the municipality’s GHG footprint

Main stakeholders
BCMM implementers and Contractors: for supply, delivery and installation Community: will have an energy efficient street lighting
Project maturity (IFC / World Bank Categories)

STAGE 1: Concept Development, Site identification

- Number of Lighting points: 60,000 street lights
- Mapping of the street lighting system: YES
- Current installation

Expected energy / expenses savings
- Mathematical calculations

Source of electricity:

STAGE 2: Pre-Feasibility Studies

- Pre-feasibility study: no

STAGE 3: Feasibility Studies

- Feasibility study: NO

STAGE 4: Permitting / Financing / Contracts

- Contract with municipality: MUNICIPAL OWNED
- Building permits signed: N/A
- Environmental impact study: N/A
- Identified sources of fundings

STAGE 5: Engineering / Construction / Commercial Operation

- Engineering, Procurement and Construction Contractor: Not available at this time
- Operation and Maintenance Contractor: Not available at this time

Comments
- MOTIVATION: Implementation of energy efficient streetlights will result in reducing energy consumed by public lighting infrastructure, which will save energy costs and allow for additional funds towards upliftment.