Efficient City and PeriUrban Market Lightning

Expected project CAPEX: 8,583,004 USD$

Mandating Authority: Blantyre City Council

Summary

1/ The majority of streets lights in the City of Blantyre use halogen lamps. These lamps consume a lot of energy because of high power rating usually above 250 Watts. Most of the street lights are not working because of high costs of replacement. The project aims to replace halogen lamps with LED lighting fixture in order to save energy and reduce running costs of the street lights in Blantyre City.

2/ Currently most markets in the City of Blantyre have no electricity or limited electricity with no lighting provided. The project aims to install solar LED lighting in local markets and streets in selected peri-urban locations in the City of Blantyre in Malawi. The project will help to increase operating hours of local markets and boost revenue turnover for the small businesses (SMEs). People living in semi-urban communities will benefit from increased productivity during the day and still access the local markets in the evening for their daily shopping in safer and secure environment because of the solar LED lighting.

Location and population
City of Blantyre,
Malawi,
920,226 inh

Social and environmental impact
Blantyre City Council will undertake the social impact assessment on how the project would impact road users who were used to halogen lamp. It will also undertake the social impact assessment on how the project would impact peoples health, security and property, so as the waste management from the local markets.

Main stakeholders
1. Blantyre City Council
2. INFLO LTD Energy Systems
3. SMEs
4. Ward Councillors
5. Members of the Community
**Project maturity (IFC / World Bank Categories)**

**STAGE 1 : Concept Development, Site identification**
- Number of Lighting points: 5,736 replacement and 450 new lightning points (markets)
- Mapping of the street lighting system: YES
- Source of electricity: Grid connected and Solar
- Expected energy / expenses savings: 6,746 MWh / 342,258 USD$

**STAGE 2 : Pre-Feasibility Studies**
- Pre-feasibility study: YES 2016

**STAGE 3 : Feasibility Studies**
- Feasibility study: NO

**STAGE 4 : Permitting / Financing / Contracts**
- Contract with municipality: UNDER NEGOTIATION
- Building permits signed: NO
- Environmental impact study: NO
- Identified sources of fundings

**STAGE 5 : Engineering / Construction / Commercial Operation**
- Engineering, Procurement and Construction Contractor: INFLO LTD ENERGY SYSTEMS
- Operation and Maintenance Contractor: INFLO LTD ENERGY SYSTEMS
- Comments:
  1/ The project will have more economic and social benefits to people living in the city of Blantyre. Energy cost savings of up to 70% will be realized. The city can use the cost savings to provide other social services to the communities in the city. Shift workers will also benefit from secure roads where they can safely walk from work to their homes.
  2/ The project will have more economic and social benefits to people living and doing business in peri-urban communities. With LED lighting in the streets leading to the local markets and in the market.