**LED**

**Expected project CAPEX:** 1'117'820 €

**Mandating Authority:** Mekelle City Urban development office

**Summary**
The city of Mekelle is responsible for the provision of infrastructure services to a population of about 313,000 living in a large geographic area covering 26 hectares. The city has 184 KM of street light coverage.

**Location and population**
Mekelle city, Ethiopia

**Social and environmental impact**
LED lights are environmentally friendly because they consume so little energy. They are free from hazardous compounds, such as mercury and lead which release toxins.

**Main stakeholders**
Mekelle City road, transport and contraction office, Mekelle city Planning and finance office, Ethiopian electric utility Mekelle branch
**STAGE 1: Concept Development, Site identification**

- Number of Lighting points: 934
- Mapping of the street lighting system: YES
- Current installation

**Expected energy/expenses savings**
Sodium and fluorescents are not power saving technologies but LED technologies are energy saving so this is preferred

- Source of electricity: 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
- Building permits signed
- Environmental impact study
- Identified sources of fundings

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

- Engineering, Procurement and Construction Contractor
- Operation and Maintenance Contractor
  - Mekelle city urban development office with Ethiopian electric utility

Comments