Project of conversion of street lighting into LED

Expected project CAPEX: 27'307'000 €
Mandating Authority: Conseil Regional du Cavally

Summary
Cavally region in western Côte d’Ivoire does not have enough luminaires for its public lighting. This project therefore aims to alleviate these problems by replacing all existing lamps with LED and install new light sources.

Location and population
Cavally Region, Côte d’Ivoire
350'000 inh.

Social and environmental impact
The implementation of this project will provide solutions to a population that participates mostly in the informal employment sector, such as nighttime trade. The living conditions of these people will therefore be improved. This project is environmentally friendly because it uses less electricity. Public lighting will also bring more security in the city and limit the risk of nighttime accidents. Several hundred direct jobs will be created in the construction, operation and maintenance phases.

Main stakeholders
Cavally Region, GIWA, NGO IMPACTUM, ASTVEN, CAPDEL
**Project maturity** (IFC / World Bank Categories)

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

**Number of Lighting points :** 7000

**Mapping of the street lighting system :** No

**Current installation**
Sodium lamps connected to the grid

**Expected energy / expenses savings**
2452 KWh / year; Save about 70% compared to HPS

**Source of electricity :**
Connected to the network (replacement of fixtures) and Street Lights Solar LED Luminaire

**STAGE 2 : Pre-Feasibility Studies**

**Pre-feasibility study**
No

**STAGE 3 : Feasibility Studies**

**Feasibility study**
No

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

**Contract with municipality**
Ongoing discussions

**Building permits signed**
Ongoing discussions

**Environmental impact study**
Not necessary

**Identified sources of fundings**
No

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

**Engineering, Procurement and Construction Contractor**
ongoing discussions with suppliers

**Operation and Maintenance Contractor**
ongoing discussions with suppliers

**Comments**
This project will be economically viable to the extent that the LED lamps have a longer lifespan than conventional bulbs and are energy efficient