**Project of conversion of street lighting into LED**

**Expected project CAPEX:** 19’694’000 €

**Mandating Authority:** Autonomous District of Yamoussoukro

**Summary**

Yamoussoukro, the political capital of Côte d’Ivoire, has about 921 light sources; 7 zones of shade and 2 areas in the dark. These problems are mainly due to the current lamps, which have a very short lifetime and are electricity-intensive. This project aims to alleviate the situation by installing 5000 LED lamps.

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.

**Location and population**

Autonomous District of Yamoussoukro, Côte d’Ivoire

300'000 inh.

**Social and environmental impact**

The Autonomous District of Yamoussoukro, GIWA, ONG IMPACTUM, ASTVEN, GPGROUP, BG Ingénieurs Conseils SA, S2 Services Sarl

**Main stakeholders**

The Autonomous District of Yamoussoukro, GIWA, ONG IMPACTUM, ASTVEN, GPGROUP, BG Ingénieurs Conseils SA, S2 Services Sarl
**Project maturity (IFC / World Bank Categories)**

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

- Number of Lighting points: 5000
- Mapping of the street lighting system: No
- Current installation: Sodium lamps connected to the grid
- Expected energy / expenses savings: 1752 MWh/year; Save about 70% compared to HPS

**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: ASTEVEN Group & Partenaires, BG Ingenieurs Conseil S.A.
- Operation and Maintenance Contractor: ASTEVEN Group & Partenaires
- 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

**Source of electricity:**

Connected to the network (replacement of fixtures) and Street Lights Solar LED Luminaire