



Covenant of Mayors
in Sub-Saharan Africa



Co-funded by
the European Union



Co-implemented
by AFD

Optimizing the energy and environmental performance of a new hospital



PROJECT OWNER
Private client



NATURE OF SUPPORT
Feasibility study



PERIOD
december 2019-
march 2020



CLIMATE FOCUS
Climate change mitigation

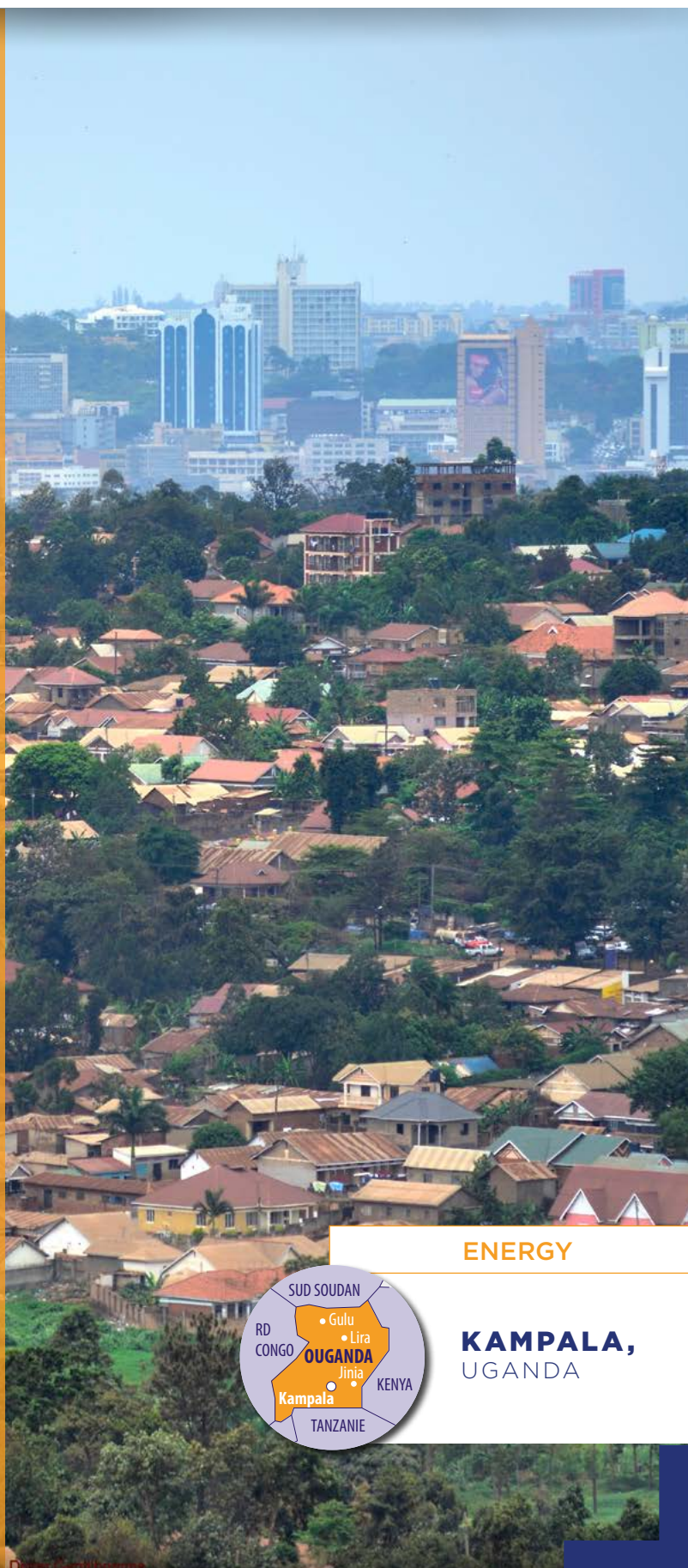


COM SSA FUNDING
€13,800



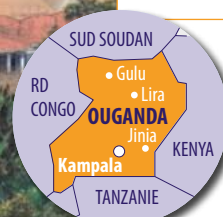
OUTCOMES

- **Additional funding of US\$1.5M** (Proparco/client) for the implementation of an energy and environmental performance optimization program at the future Hospital to obtain HQE certification Very good
- **Awareness of the principles of sustainable construction**



ENERGY

KAMPALA,
UGANDA



Context of the support

A private actor plans to develop a university and hospital campus in Kampala. The project is fully in line with the government's Uganda Vision 2040 plan, one of whose objectives is to improve health indicators.

The construction of the campus will be financed mainly by the private client, and Proparco will finance part of the investment with a subsidized \$35M loan and a \$5M grant. Proparco has established three conditions for its support — the client must commit to strengthening access to care for the most disadvantaged people, strengthening human resources in health in Kampala and ensure energy-efficient and environmental construction.

The CoM SSA facility funded a feasibility study that allowed the client to fully participate in a sustainable construction approach.

Objectives



To propose measures to improve the energy and environmental performance and estimate of associated costs



To establish a study of pre-scoring on the basis of the measures proposed to obtain a green building certification



To make recommendations for obtaining certification, to be included in the specifications of construction companies



Achievements

Assessment of the project's potential to obtain High Environmental Quality (HQE) International "Very Good" certification based on four main categories: energy, environment, health and comfort.

- › **Analysis of the local and national regulatory framework** in the Building sector.
- › **Environmental requirements related to HQE certification:** scope, achievable level of certification, main requirements and pre-evaluation of additional costs, impact on the reduction of CO₂ emissions, description of environmental performance measures to be incorporated into the project design phase.

Results

The study enabled the client's teams to take the necessary steps in order to ensure that the hospital buildings are energy-efficient. The planned measures will allow energy savings of 18.9% compared to a conventional project – particularly through savings on air conditioning related consumption, lighting, water heating and ventilation – and a reduction of 11.5% in water consumption. These savings will result in a 205-tonne CO₂ reduction every year compared to a conventional project.

The study also confirmed the project's ability to achieve HQE certification at a "very good" level. Additional measures were identified to meet the specifications of the HQE certification and the additional investment is estimated at a maximum of 2% of the construction cost, or \$1.5 million. This HQE construction would notably allow energy savings of 24.4% compared to a conventional project.



Study follow-up

The study made it possible to raise awareness among project stakeholders on the issues of sustainable construction.

If the project is successful, obtaining an HQE certification will create a ripple effect in neighboring geographies, demonstrating the interest and feasibility of high environmental quality development projects.

Launched in 2015, the Covenant of Mayors for Sub-Saharan Africa (CoM SSA) is a major catalyst for local climate action in the region, thanks to the political commitment of more than 300 local governments. The objective of the CoM SSA is to help local governments move from planning to implementation, with a focus on unlocking climate finance at the local level.



For more information:

<https://comssa.org/>

