



## Chaire Economie du Climat

### *Energy Transition in Africa: Regulation and Competition*

The electricity sector in Africa is currently experiencing several problems . In rural areas, where current needs are generally located, network expansion programs are neither cost-effective nor efficient. Advances in more decentralized approaches, such as mini-grids and off-grid systems based on renewable energy sources, have created increasingly economical alternatives to network expansion as an electrification strategy or in addition to unreliable networks in urban areas.

It is likely that the emergence of decentralized solutions as well as the need to decarbonize the economy will lead in Africa an energy system that avoid the usage of fossil fuels. However, there is currently no blueprint for this catch-up strategy (leapfrogging). This concerns not only the choice of energy production technologies, but also the way they are distributed and integrated into the energy system, opening to competition, setting tariffs that secure investments.

#### **Missions**

- Review of the literature on the organization of the electricity sector in different African countries
- Research case study on the integration of renewable energies (mini-grid, off-grid)
- Based on the review of the literature and the case study, sketch a model on the organization of the sector that facilitates universal access to electricity.

#### **Profil**

This position is aimed at master students/engineering students in the fields of economy/energy/environment. The candidate must have organizational ease, autonomy and ability to work in relation with the various interlocutors of the Chair. A good experience of econometric methods is recommended, and a personal interest in the fields of the economics of climate change is an asset. This internship can lead to a thesis project within the Chair.

**Duration:** Starting March-April 2019 for a 6 months period

**Place :** Chaire Economie du Climat, Palais Brongniart, 28 Place de la Bourse, Paris

**Salary:** 90% SMIC

**Contact:** Cover letter and CV [claire.berenger@chaireeconomieduclimat.org](mailto:claire.berenger@chaireeconomieduclimat.org)

Indicating the internship name's offer (only 2 applications maximum on all CEC internships offers)