Haiti Energy Project

Calling on energy students, and professionals in the UK to support the development of the power sector in Haiti.

Objective

The Haiti Energy Project is a collaboration between students in the Energy Systems MSc at Oxford, and the Haitian Energy Ministry. The project aims to mobilize expertise from UK universities to help develop open-access resources that can support the design, and operations of Haiti's future energy sector.

Together with Haiti's power sector regulator ANARSE, we developed four projects that students are welcome to contribute to. They include a **high voltage transmission design, tariff model for utility-scale and small-scale generation, and an energy geospatial portal**. Energy enthusiasts with experience in energy modeling, data analytics, geospatial systems, power systems design, finance, economics and governance are particularly sought after.

Each project is led by an Energy Systems MSc student and will consist of about **10 people.** Tasks will be allocated depending on availability and expertise. Professionals at ANARSE will be available to provide resources and answer any questions we may have. The expected deliverables include datasets, analysis files, code repositories, and written reports with clear recommendations to the Haitian Energy Ministry.

Projects

1. Design of Haiti's future high voltage transmission system to withstand roughly 80% of renewable penetration. Stability, power quality, and network resilience to be included.
2. Creation of Haiti's first energy geoportal, integrating custom data layers, and energy resources to support developers, and policy makers.
3. Recommendations on single-segment operators for Haiti's future energy system. Operators will include generators, transmission operators, and retailers.
4. Creation of an LCOE simulation tool to validate power price for various energy generation types.
5. Design of a tariff adjustment tool to validate operators' tariff deviation.
6. Creation of a tariff simulation tool to support project viability and cost recover in mini-grid projects in Haiti.

Timeline and Time Commitment

June-October 2026. We expect between 2-5 hours a week commitment from participants.

Impact

Only about half of Haiti's population has access to electricity. Gang violence, poor maintenance, and damaged transmission infrastructure have weakened the energy sector and governance challenges prevented the national utility from modernizing. This is a unique opportunity to impact millions of people, while advancing your own professional acumen.

How to join?

If you are interested in joining, please email wilhem.hector@eng.ox.ac.uk